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The



# CHEMIST AND DRUGGIST

for RETAILER - WHOLESALER - MANUFACTURER

Established 1859

28 Essex Street, Strand, London, W.C.2

Registered as a Newspaper

No. 3041  
VOL. CXXVIII

MAY 21, 1938

Annual Subscription (with  
Diary) 20/- Single Copies 9d.

# ALKALOIDS

## FINE CHEMICALS

## OPIUM DERIVATIVES

## CHLORAL HYDRATE

CAPSICIN

CANTHARIDIN

ERGOTIN

CHLOROFORM

ATROPINE

SALICIN

SCAMMONY & JALAP RESINS

HYOSCYAMINE

MORPHINE · CODEINE · STRYCHNINE · CAFFEINE · Etc.

# T. & H. Smith Ltd

EDINBURGH, 11

LONDON, E.C.2

GLASGOW, C.1

Blandfield Chemical Works

25 Christopher St.

32 Virginia St.

Goods covered by Dangerous Drugs Acts offered subject to all regulations



For  
pharmacists  
only .....  
because of  
mercuric  
iodide  
content

Parke-Davis Shaving Cream and Parke-Davis Dermaseptic Shaving Stick products. The cream is in a tall, dark tube with a label that reads 'PARKE-DAVIS SHAVING CREAM' and 'PARKE-DAVIS & COMPANY LONDON W.1'. The stick is in a dark, cylindrical container with a label that reads 'PARKE-DAVIS DERMASEPTIC SHAVING STICK' and 'PARKE-DAVIS & CO. LONDON W.1'. Both products feature the Parke-Davis logo, a stylized 'PD' inside a circle.

# GOOD COMPANIONS

SEND FOR  
FREE

Parke-Davis Shaving Cream and Parke-Davis Dermaseptic Shaving Stick products. The cream is in a tall, dark tube with a label that reads 'PARKE-DAVIS SHAVING CREAM' and 'PARKE-DAVIS & COMPANY LONDON W.1'. The stick is in a dark, cylindrical container with a label that reads 'PARKE-DAVIS DERMASEPTIC SHAVING STICK' and 'PARKE-DAVIS & CO. LONDON W.1'. Both products feature the Parke-Davis logo, a stylized 'PD' inside a circle.

M.R.P.  
1/6

PARKE, DAVIS & CO., 50, BEAK ST., LONDON W.1.



# KLEENEX

## LEADERS FOR VALUE IN PAPER HANDKERCHIEFS

As a result of the phenomenal increase in sale and popularity of KLEENEX, the manufacturers are pleased to announce, as from June 20, an increase in the number of tissues in both the 6d. and 1/- boxes.

**MORE  
TISSUES  
PER BOX**

**AFTER JUNE 20<sup>TH</sup>**



Issued by Cellucotton Products Limited,  
317 High Holborn, London, W.C.1

	NOW HOLDS	WILL HOLD
<b>6<sup>d</sup></b> BOX	100 TISSUES	136 TISSUES
<b>1/-</b> BOX	200 TISSUES	272 TISSUES

### TRADE PRICES REMAIN

**4/- PER DOZEN 6<sup>d</sup> BOXES**

**8/- PER DOZEN 1/- BOXES**

**500 BOX NOW SELLS AT 2/3**

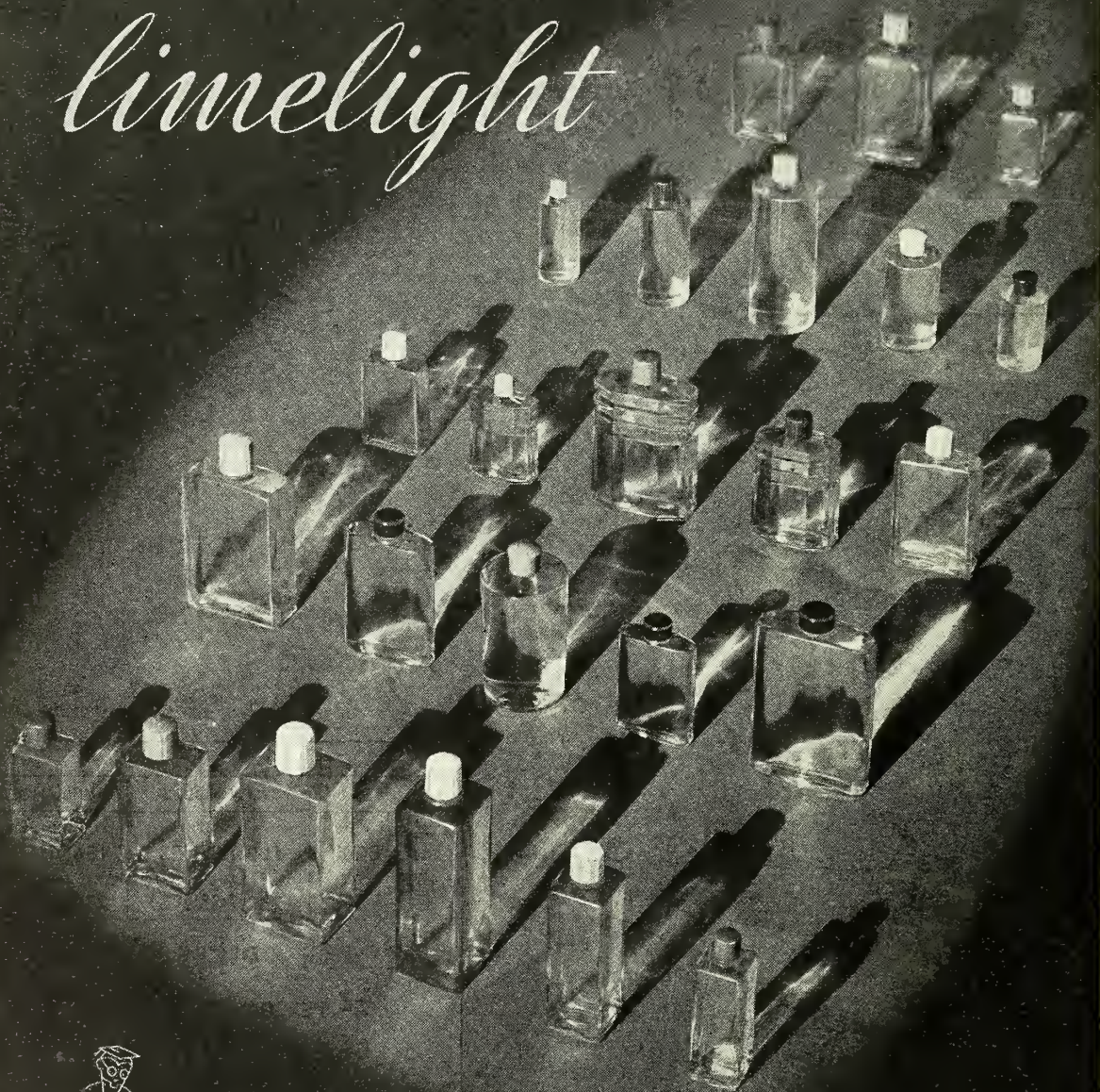
**— WILL SELL AT 1/9**

**TRADE PRICE 14/- PER DOZ.**

The new boxes will be obtainable  
through your usual wholesaler  
from June 20th.



*In the  
limelight*



BOTTLES OF QUALITY

THE INTERNATIONAL BOTTLE CO LTD

48, FORE STREET, LONDON, E.C.2

PHONE METROPOLITAN 6161

GRAMS. AUTREFOIS TELEX LONDON



**LOVE ME, LOVE MY DOG** *flea?*  
(CTENOCEPHALUS CANIS)



DOG FLEAS ARE APT to be ruinous pets for men and women like you. One may carry 20 embryotapeworms, waiting their chance to involve you in endless trouble and expense. Eliminate this risk of worms—87% of tapeworm infections are due to dog fleas—and the other risks as well, simply by following the

## COOPER HEALTH ROUTINE

**1 TO PREVENT TAPEWORMS**—Spend five minutes once a week dusting your dog's coat with Pulvex, to keep him free from fleas and all flea-borne parasites. A 6d. tin lasts several months.

**2 TO PREVENT ROUNDWORMS**—Spend thirty seconds once a day sprinkling his main meal with Cooper's Vitamin Ration to give him vital elements he won't get any other way. A 1/6 tin lasts two months.

**IF YOUR DOG HAS WORMS NOW**, Cooper's Liquid Worm Remedy will rid him of the lot, tapeworms and roundworms, with as little distress and danger as may be. Then the Cooper Health Routine, faithfully followed, will prevent the need for repeated worming.

This simple routine was devised and perfected by Cooper's own Research Bureau, which carries on the only research work done on these lines in this country. For any further information that will help you, please write as fully as you can to the Dog Remedies Department.

**PULVEX VERMIN POWDER** | **COOPER'S VITAMIN RATION** | **COOPER'S LIQUID WORM REMEDY**  
6d and 1/3 sprinkler tins | 1/6, 2/9, and 4/6 | Small dogs 1/3, larger dogs 2/6 bottles  
FROM ALL CHEMISTS AND DOG SHOPS

**COOPER, McDOUGALL & ROBERTSON LIMITED, BERKHAMSTED, HERTS**

**DIRTY DOG FEEA!** That's the proper comment, with the accent on the £, for you to make on this advertisement, reprinted now in miniature from the 'Tailwagger' etc. The Cooper Health Routine, which puts paid to this loathsome pest, can mean real money to you. Vet. counters in quite small shops are turning over a steady £5 per week. Have you got one? The Cooper Health Routine will give you a flying start and a dependable mainstay. Three sales in one and nine times the profit in the year.



**PULVEX VERMIN POWDER**

6d and 1/3 sprinkler tins

**COOPER'S VITAMIN RATION**

1/6, 2/9, and 4/6

**COOPER'S LIQUID WORM REMEDY**

Small dogs 1/3, larger dogs 2/6 bottles

TRADE TERMS—less 33½% and less 5% cash monthly

**COOPER, McDOUGALL & ROBERTSON LIMITED, BERKHAMSTED, HERTS**



# EXTRACTS

TINCTURES RESINOIDS  
OLEO-RESINS MEDICINAL RESINS

**ALOIN**

**JALAP RESIN**

**SCAMMONY RESIN**

---

**EXTRACT of QUASSIA**

**WILLIAM RANSOM & SON**

ESTABLISHED 1846

*Ltd.*

*Manufacturing Chemists*

**HITCHIN near LONDON**

## INDEX TO ADVERTISERS

Actina, Ltd. (Ditmar Cine Camera) ...	19	Burrough, James, Ltd. (S.V.R. for Tinctures) .....Leader Page	Fassett & Johnson, Ltd. (Ganzband) ...	18	
African Commercial Co. (Rhodesian Agencies) .....	iv	Burroughs Wellcome & Co. (Bismuth Carbonate) .....	25	Fromm, Herbert (Morfi Specialities) xvi	
"Alpa" Fine Chemical and Cosmetics Products Factory (Czechoslovakian Agencies, &c.) .....	10, 13	Campbell, J. D. (Nicotine Insecticides)	19	George, Ernest J., & Co. (Valuers, &c.) .....Col. Supp.	
Armour Laboratories, The (Flavoured Junket) .....	15	Castle, Huskisson, Ltd. (Tablets, &c.)	vi	Graesser, N. H. (Phenol B.P., &c.) ..	
Armstrong Cork Co., Ltd. (Corks) ...	xiv	Cellucotton Products, Ltd. ("Kleenex" Paper Handkerchiefs) .....	1	Graesser Salicylates, Ltd. (Salicylates)	ii
Aspro, Ltd. (Aspro) .....	ix	Chappell Allen & Co., Ltd. (Camelia Towels) .....	18	Grey, Adelaide, Ltd. (Laleek Toilet Preparations) .....	12
Association of Manufg. Chemists, Ltd. Col. Supp.		Chemical Workers' Union, The...Col. Supp.		Hackett, S. E. (Film Overstocks) Col. Supp.	
Aurum Ambroseum, Ltd. (Rheumatism Treatment) .....	24	Chemist and Druggist, The...Leader Page		Hadfield, Henry, Ltd. (Bottle Boxes)	17
Barker, R. W., & Co. (Patent Agents)	24	Clay & Abraham, Ltd. (Painex Tablets) .....	x	Haller Laboratories, Ltd. (Danysz Virus) .....	22
Bayer Products, Ltd. ('Adalin') Leader Page		Cooper McDougall & Robertson, Ltd. (Vernain Powder, &c.) .....	3	Hampson, F., Ltd. (Bottles) .....	xiv
Bell, John, Hills & Lucas, Ltd. (Lotil Sun Tan Lotion) .....Leader Page		Cooper, Son & Co., Ltd. (Cachets) ...	24	Hosezene Co., Ltd., The (Sanitary Towels) .....	16
Berdoo & Fish (Valuers, &c.) ...Col. Supp.		Cossor, A. C., & Son (Thermometers), Ltd. (Clinical Thermometers) .....	18	Howards & Sons, Ltd. (Bismuth Carb. P.B.) .....	i
Bob Martin, Ltd. (Dog Remedies) .....	20	Cox, A. H., & Co., Ltd. (C.O.B. Lines) .....	8	Hubbuck, T., & Son, Ltd. (Oxide of Zinc) .....	ii
Bottomley, J., & Sons, Ltd. (Halibars)	x	Davenport, J. T., Ltd. (Collis Browne's Chlorodyne) .....	vii	International Bottle Co., Ltd., The (Bottles) .....	2
Brand & Co., Ltd. (Brand's Essence)	xi	Denver Chemical Mfg. Co. (Anti-phlogistine) .....	vi	Jones & Co. (Methylators), Ltd. (Methylated Spirit) .....	5
British Drug Houses, Ltd., The (Chloral Formamide, &c.) .....Cover iv		Dick, W. B., & Co., Ltd. (Liquid Paraffin) .....	vi	Josephs, Philip, & Sons, Ltd. (Shop-fittings) .....Col. Supp.	
British Felsol Co., Ltd. (Asthma Remedy) .....Leader Page		Dixor, Ltd. (Beauty Preparations) .....	14	Kay Bros., Ltd. (Era Moth Cartridge, &c.) .....	vii
British Xylonite Co., Ltd. (Halax Toothbrushes) .....	10	Dudley & Co., Ltd. (Glass Counters)	22	La Parfumerie Moderne .....	12
Brook Parker & Co., Ltd. (Tablets, Pills, &c.) .....	24	Duke Pharmaceutical Co. (Plastrodine)	24	Lander, L. T. (Filling Machines) .....	19
Buckley-Bowker Tablet Co., Ltd. (Tablets, &c.) .....	iv	Ebe Products, Ltd. ("Minus" Slimming Treatment) .....	11		
Burge, Warren & Ridgley, Ltd. (Surgical Rubber Goods) .....	24	Everett, S. & R. J., & Co., Ltd. (Hypodermic Needles) .....	17		

Continued overleaf

[Continued overleaf.]



# JONES

FINEST QUALITY

# METHYLATED SPIRIT

ALL STRENGTHS  
IN STOCK.PROMPT DELIV-  
ERIES IN CASKS,  
DRUMS OR BY  
TANK LORRY.

Send your enquiries to:—

**JONES & CO. (Methylators) LTD., Bow, London, E.3**

TELEPHONE: ADVANCE 3210.

TELEGRAMS: 'METHSPIRIT, LONDON.'



**INDEX—cont.**

Lawrence, G. H., Ltd. (Razor Blades, &c.) .....	12	Ormerod Engineers, Ltd. (Q.P. Emulsifier) .....	xii	Smith, T. & H., Ltd. (Alkaloids) .....	Front Cover
Levermore, A., & Co., Ltd. (Precipitated Chalk) .....	24	Orridge & Co. (Valuers, &c.) ...Col. Supp.		Soho, Ltd. (Cameras, &c.) .....	17
Lockers (Engineers), Ltd. (Rotex Screeners) .....	xii	Papier Poudré (Papier Poudré) .....	13	Solazzi Liguorice .....	iv
Lofthouse & Saltmer, Ltd. (Halibut Liver Oil) .....	v	Parke, Davis & Co. (Shaving Cream, &c.) .....	Cover ii	Southalls (Birmingham), Ltd. (Sanitary Towels, &c.) .....	16, 18
London Capsule Co. (Bottle Caps) ...	xiv	Perry & Hope, Ltd. (Phosphate of Soda) .....	24	Sterns, Ltd. (Oils, Petroleum) .....	xiii
Macandrews & Forbes, Ltd. (Apollo Liguorice) .....	iv	Phosferine (Ashton & Parsons), Ltd. (Phosferine Tonic) .....	viii	Sumner's Ty-phoo Tea, Ltd. ...Leader Page	
McClure, Young & Co., Ltd. (Packed Lines) .....	15	Pindar, J. W., & Co. (Pharmaceutical Machinery) .....	24	Thompson & Capper Wholesale, Ltd. (Speeko Electric Shaver) .....	21
Macleans, Ltd. (Oslo Pine Bath Salts) ..	9	Potter & Clarke, Ltd. (Wholesale Druggists) .....	23	Thompson, John (W.D., 1921), Ltd. (Drugs, &c.) .....	6
Martin, Bob., Ltd. (Dog Remedies) .....	20	Premier Oil Extracting Mills, Ltd. ...	x	Townsend, J., & Sons (S.V.M. Register) ..	vii
Mather, Wm., Ltd. (Plaisters) .....	16	Purfinol, Ltd. (Liquid Paraffin, &c.) ...	iv	"Two Steeple" Original Record Syringes .....	24
Matthews, D., & Sons, Ltd. (Shopfittings) .....	Col. Supp.	Ransom, W., & Son, Ltd. (Extracts) ...	4	Veno Drug Co., Ltd. (Veno Products) ..	7
Melford Institute, Ltd. (I-Beam Eye Treatment) .....	13	Reckitt & Sons, Ltd. ('Dettolin')... ..	xi	Waltou, T. H., & Co., Ltd. (Tablets and Pills, &c.) .....	v
Midgley & Parkinson, Ltd. (Yeast Preparations) .....	24	Riley, J., & Sons, Ltd. (Hypo, &c.) ...	v	Warrick Bros., Ltd. (Sun Products) ...	26
Mosans Laboratories (Quinine Pessaries, &c.) .....	16	Roberts' Patent Filling Machine Co., Ltd. ....	xii	Webb, Wm. A., Ltd. (White Monarch Dispensing Balance) .....	14
Mysore, Trade Commissioner for, in London (Sandalwood Oil) .....	v	Rudduck & Co. (Shopfittings) ...Col. Supp.		Whiffen & Sons, Ltd. (Clove Oil, &c.) ..	Cover iii
National Cash Register Co., Ltd. (Cash Registers) .....	14	Samona, Ltd. (Samona) .....	xiii	Wotherspoon, W. M., & Co., Ltd. (South African Agencies) .....	22
National Glass Works (York), Ltd. (Bottles) .....	xv	Samuelson, P., & Co. (Avocado Pear Oil) .....	13	Wyles, Ltd. (Bismuth and Magnesia Tropels, &c.) .....	Leader Page
Neill, J., & Co. (Sheffield), Ltd. (Eclipse Razors, &c.) .....	10	Savory & Moore, Ltd. (Ethical Medical Products) .....	viii	Yestamin Co. (Dried Yeast Powder and Tablets) .....	24
Newball & Mason, Ltd. (Extract of Herbs) .....	xiii	Saxton Glynn Bottle Co., Ltd. ....	xiv	Zimmermann, C., & Co., Ltd. (Chemicals) .....	iii
		Scurr, C. A. (Optical Tuition) .....	24		
		Seymour Sheldon Co., Ltd. (Agar-Agar, &c.) .....	19		
		Sharplin, W. J., Ltd. (Stoppers) .....	18		
		Singleton & Cole, Ltd. (Tobacco, &c.) ..	24		

# John Thompson (Wholesale Druggists 1921) Ltd.

27-35 DUKE STREET, LIVERPOOL

TELEGRAPHIC ADDRESS:  
"DRUGS"  
LIVERPOOL

LABORATORIES:  
12/18 CAMPBELL STREET,  
AND 10 GRADWELL STREET

TELEPHONE:  
NO. 6121  
ROYAL

Enquiries invited for

**DRUGS, GALENICALS, PILLS, TABLETS and CHEMICALS**

also "CHEMISTS FRIENDS LINES"

Durkee's Asthma Cure

" Ointment

" Pills

Jaytee's Antiseptic Healing Ointment

" Chlorophyll Co. Tablets

" Conf. Senna

" Cream of Magnesia

" Huile d'Olive

• **Water Glass at competitive prices**  
**Ask for prices**

Jaytee's Improved Lysol

" Liver Extract

" Liquid Glucose

" Syrup of Hypophosphites Compound  
(Neutral Cloudy)

" Stomach Powder (Maclean's Formula)  
and Tablets

" Poulticine" (Reg.)

Sands Green Herbal Ointment

Sands Liver Seeds

• All packed in attractive style





**VENO**  
Sales..  
**VENO**  
Profits

**VENOS** BRAND  
LIGHTNING  
COUGH CURE  
THE IDEAL FAMILY REMEDY.

**Phensic**

**DR. CASSELL'S**  
TABLETS

**Germolene**  
Aseptic Ointment

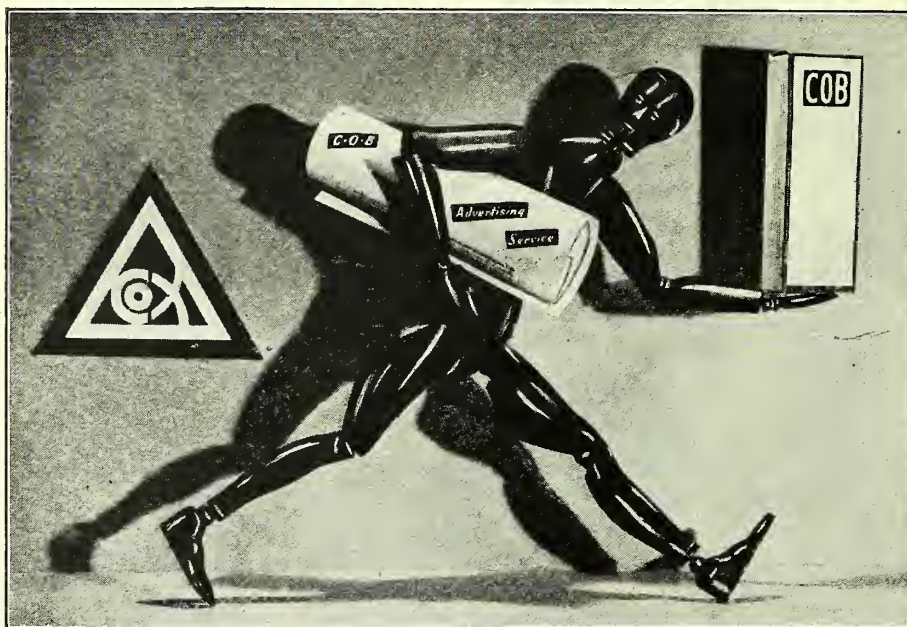
*Lots in*  
**a name!**

**H**ARDLY a home in the country but does not know, trust and rely upon these four famous VENO products. Veno stands for thousands of pounds worth of business over the counter . . . EVERY WEEK! Are you getting YOUR share? Are you making a good display of these profitable lines? This is the season when sales soar . . . so look to your stocks and drop us a card for latest show material, FREE on request.

- **VENOS** COUGH CURE  
BRAND
- **DR. CASSELL'S** TABLETS  
BRAND
- **GERMOLENE** OINTMENT  
BRAND
- **PHENSIC** BRAND

**VENO DRUG CO. LTD.**  
CHESTER ROAD • MANCHESTER • 16

## KEEP A STEP IN FRONT WITH



The C.O.B. method of packing Pharmaceutical Products introduced over 5 years ago has evoked warm praise from hundreds of Pharmacists.

In conjunction with this scheme we have now introduced a comprehensive

### ADVERTISING SERVICE

and Chemists who adopt the Chemist's Own Brand Scheme have at their disposal not only a smartly packed series, but a real force to meet competition, establish goodwill and foster repeat business.

#### CHEMISTS SAY —

1. "I feel considerably indebted to Messrs. Arthur H. Cox & Co. Ltd. for introducing the Chemist's Own Brand Scheme as its value to the individual Chemist is so obvious."
2. "Rather different from the old way of pushing a line for a year or two and then finding the same pack not very far away."
3. "I feel I must write and congratulate you on 'YOUR OWN BRAND SCHEME.' As you know I went in for it right at the start and I am very thankful that I did."
4. "I look upon the C.O.B. Scheme as the most valuable help which my business has had for many years. As you know, I am a full and enthusiastic supporter of the scheme."

*Write for "C.O.B. BOOKLET"*

## ARTHUR H. COX & CO. LTD.

Manufacturing Chemists, BRIGHTON



# Link up with this big OSLO SUMMER SALES DRIVE!



Refreshing Oslo Pine Bath Salts, like all Maclean lines, sell steadily all the year round—but with the warmer weather, the Oslo sales curve rises sharply. Macleans have again planned a summer sales drive for Oslo Pine Bath Salts, and these bigger sales bring profits of 33-1/3rd to 46% on turnover. Link up now with a window display.

## REALLY BEAUTIFUL NEW SHOWCARDS

These striking showcards, each based on a figure study by one of the leading photographers of our day, will focus every eye on your window. It will pay you well to build an Oslo display round these real-life portrait studies.

## BIG SAMPLING CAMPAIGNS !

Thousands of free samples will be distributed this summer, through popular periodicals. Macleans Oslo Pine Bath Salts has the approval of many leading beauty-writers, and will be recommended consistently throughout the summer months. All these efforts make new customers for you.

## PRICES

Small, Retail 6d. (6 bath size)  
1 dozen 4/-  
Large, Retail 1/- (14 bath size)  
1 dozen 8/-

*Special terms to direct buyers*

**MACLEANS LIMITED,**  
GREAT WEST ROAD, BRENTFORD, MIDDLESEX



## GENEROUS SAMPLES

Over the last two years widespread sampling campaigns, resulting in thousands of new customers, have increased Oslo sales. There is nothing so convincing as a personal test. Watch your sales go up this summer.







**AND IN THE NEWS**

*The new*  
**HALEXERCISE**



**HALEXERCISE**



Healthy exercise is still as important for your mouth as for the rest of your body. Get your teeth and gums just the exercise they need.

**THREE SHAPES AT A BRILLIANT**  
—most ideal, long-travel and one with extra sharpness. Each toothbrush is actually made in England by The British Xylonite Company, Ltd., Hale End, London, E.4.

**HALEX TOOTHBRUSHES**

for your first exercise in the morning and your last exercise at night.

The Halexercise habit is spreading—and Halex sales going up. The newspapers, radio, the influential magazines, all tell *your* customers to carry National Fitness one stage further and Halexercise too—and everyone's doing it, twice a day. They'll buy their Halex toothbrushes from you—order more Halex now.

### BIGGER CAMPAIGN HELPS YOUR HALEX SALES

#### PRESS

The Daily Mirror and Daily Sketch have been added to the newspapers carrying Halex advertisements.

#### MAGAZINES

Radio Times, Everywoman's, Passing Show—a long list of the magazines people read more than once are used by Halex.

#### RADIO

Popular comedian Joe Murgatroyd now puts Halex on the air twice a week from Radio Normandie (wave length 212.6 m.).

**IT'S DOING GREAT THINGS  
FOR YOUR SALES OF**



**HALEX**  
TOOTHBRUSHES

Regd. Trade Mark

MADE IN ENGLAND

Order from your usual wholesaler, or from

THE BRITISH XYLOHITE CO. LTD., HALE END, E.4

Czechoslovakian manufacturer of a popular cosmetic proprietary product of alcoholic substance not yet introduced here about to establish a factory in England is looking for a partner well acquainted with market, disposing of sufficient capital preferably with own sales organization.

Please write full particulars in confidence to

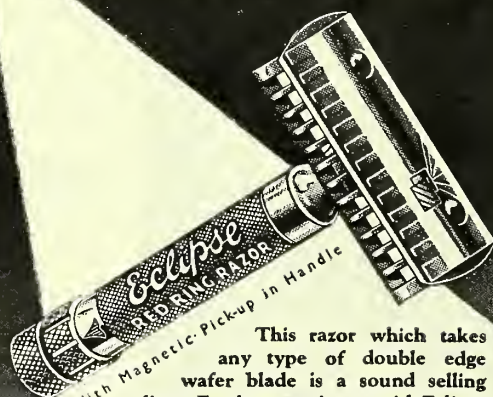
**Joseph Veselý**

Proprietor

**"ALPA" Fine Chemical and Cosmetic  
Products Factory**

**BRNO 12 — CZECHOSLOVAKIA**

**The razor for  
the connoisseur**



This razor which takes any type of double edge wafer blade is a sound selling line. Furthermore its use with Eclipse Super Blades gives that high degree of Shaving, Comfort which earns for the dealer an indisputable reputation for quality.

Retail Prices:—  
10/6, 5/6, 3/6  
Blades 5 for 1/8

**Eclipse**  
**RAZORS  
and BLADES**

Obtainable from your usual Wholesaler or direct from the Sole Manufacturers:

**JAMES NEILL & CO. (SHEFFIELD) LTD., SHEFFIELD 11.**  
E.125

# Introducing MINUS

## A GRAND AND NEW IDEA IN

# SLIMMING

sponsored by EBE PRODUCTS, LTD., manufacturers of the famous Bath Products

"MINUS" is a scientific slimming treatment that is different. "MINUS" is a special kind of slimming salt that is taken in the form of a bath. The treatment is simple, logical and pleasant. No dieting, no drugs, no exercises of any sort are required, yet each "MINUS" treatment, on an average, proves that a person will lose from 1 to 2½ lbs. in weight.

"MINUS" can mean real profits to you. A reliable slimming product finds an ever-welcome market—and a regular market, too!

Recently EBE Products, Ltd., carried out a test campaign for "MINUS" and results have quickly proved that there will be a big demand for this line in a very short time. Production facilities are now completed and widespread editorial and advertising in National Magazines and

Newspapers is to start, besides the regular campaign for EBE BATH POWDERS which will lend additional support to "MINUS."

**STOCK UP NOW WITH MINUS—**  
the commonsense way to slimness

**MINUS** Retails at **2/6** per packet  
(enough for 1 bath)

With each packet of 'MINUS' a thermometer is supplied

**FREE**

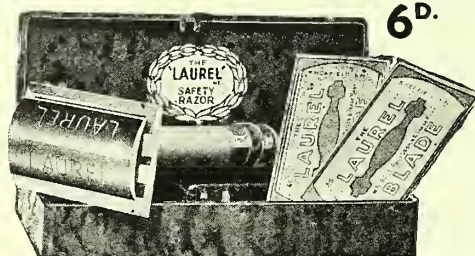


*Remember!  
MINUS means 'Plus'  
to You!*

EBE PRODUCTS, LTD., 11, DIANA PLACE, LONDON, N.W.1—EUSTON 3271

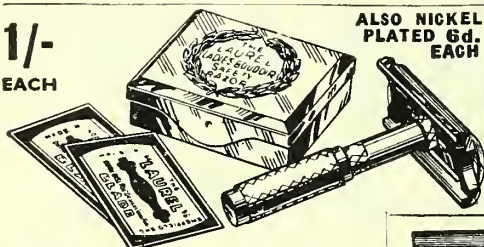


# SHAVE WITH A "LAUREL"



"LAUREL" DUMB BELL RAZOR

1/-  
EACH



THE "LAUREL" LADIES'  
GOLD-PLATED BOUDOIR  
SAFETY RAZOR  
COMPLETE WITH TWO BLADES AS  
ILLUSTRATED

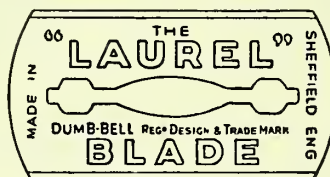
ALSO NICKEL  
PLATED 6d.  
EACH



6<sup>d</sup>. "LAUREL" PENNY BLADES—ALL TYPES  
MADE IN SHEFFIELD, ENGLAND

PENNY  
BLADES  
FOR YOUR RAZOR

PACKET OF SIX  
BLADES FOR  
6d.



FITS ALL 3-PEG HOLDERS



**GEO. H. LAWRENCE LTD. LAUREL WORKS SHEFFIELD, 25571**



**SALES ARE EASIER DAY BY DAY!**  
6,000,000 Women read Adelaide Grey's  
**LALEEK Advertisements every month**

STOCK AND DISPLAY THESE TWO STAR LINES—

★ **LALEEK**  
**LONGLASH**

★ **LALEEK**  
**WAX-A-WAY**

Obtainable through your Wholesaler, or direct from  
**ADELAIDE GREY LTD., 27 OLD BOND STREET, W.1**

## LA PARFUMERIE MODERNE

(Established 1908)

An Illustrated Monthly Review of the  
Perfumery and Allied Industries

The regular publication (in English and Spanish as well as in French)  
of technical and practical articles on Essential Oils and Synthetic  
Perfumery Products is a feature of this popular Trade Journal.

Specimen copy and all particulars from

**15 rue Constant, Lyon 12 rue Jules-Guesde, Puteaux, Paris**



# DO YOU KNOW that PAPIER POUDRÉ is an EXTRA SALE

... There is nothing else just like it on the market—  
nothing so Clean, Refreshing and Hygienic when the skin is heated and dusty  
with travel, sport or work.

Women appreciate and buy this handy toilet luxury in increasing quantities, so  
show a book on your counter and in your window and make this extra sale.

FROM ALL WHOLESALERS. Sole Manufacturers and Proprietors: PAPIER POUDRÉ, LTD., 46 Baker Street, LONDON, W.1



CALIFORNIAN

## AVOCADO PEAR OIL

*An essential ingredient in the preparation of finest quality*

### TOILET SOAPS · COSMETICS · CREAMS · LOTIONS

*"The Sunshine Oil that will improve your products"*



*Technical advice and wholesale quotations sent on application*

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* Small	6d.	...	3/-	per doz.
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Fancy Glass or Opal	2/9	...	21/-	"
De Luxe (Unbreakable)	4/6	...	36/-	"

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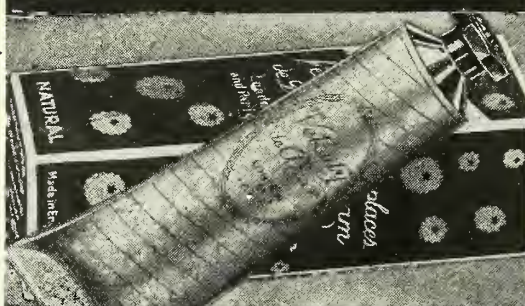
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Fots Handbag (Unbreakable)		1/3	10/-	"
Glass	...	2/9	21/-	"
De Luxe (Unbreakable)		4/6	36/-	"

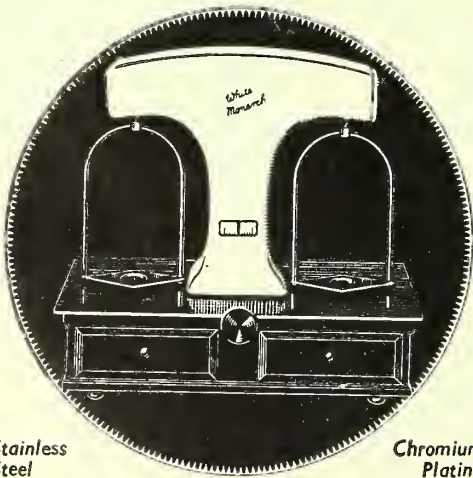
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This does not imply that prices should not show the requisite amount of profit necessary to packed lines, but that adjustments can and must be sometimes made without jeopardising **PRESTIGE, PROFIT or QUALITY.**

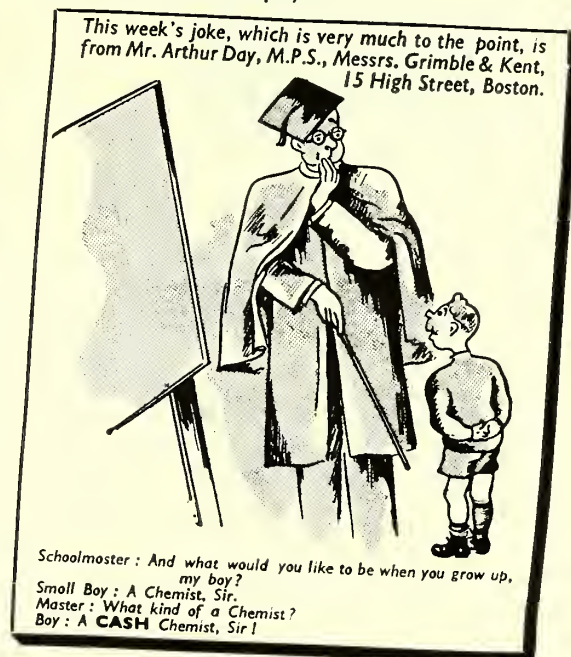
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It neutralises  
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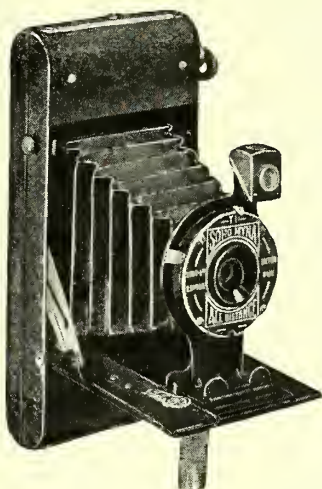


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The finest bandage of its kind in the world.



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200 Varieties  
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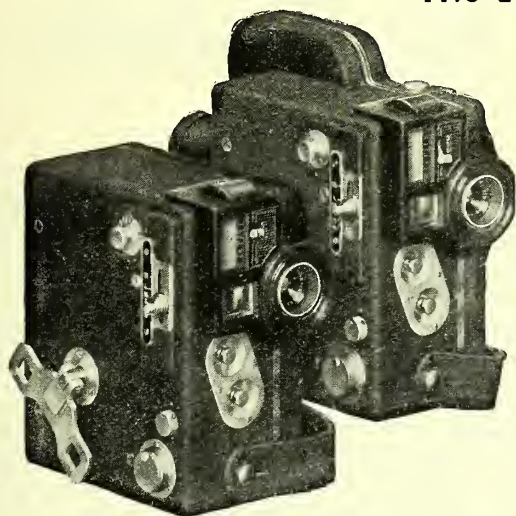
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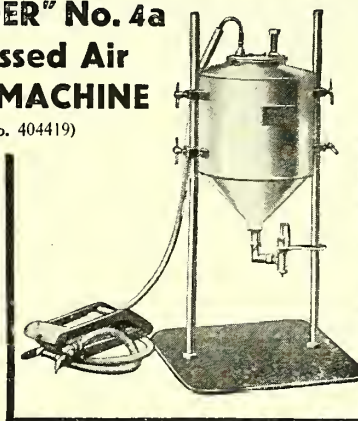
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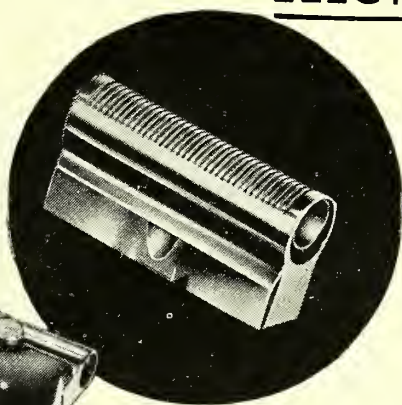


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Point out to your customers the rounded Shearing Head (patented throughout the world) which makes the Shaver move easily and smoothly over the face and massages as it shaves.



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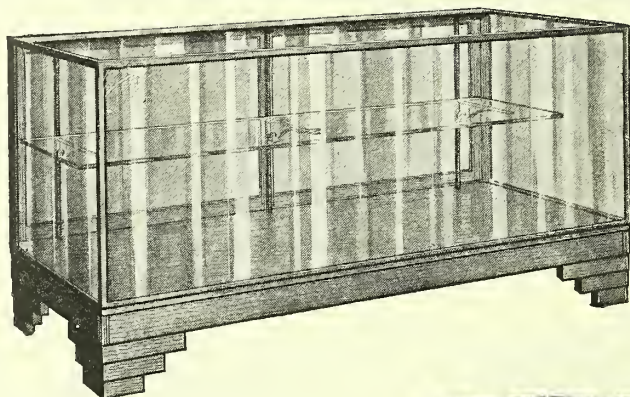
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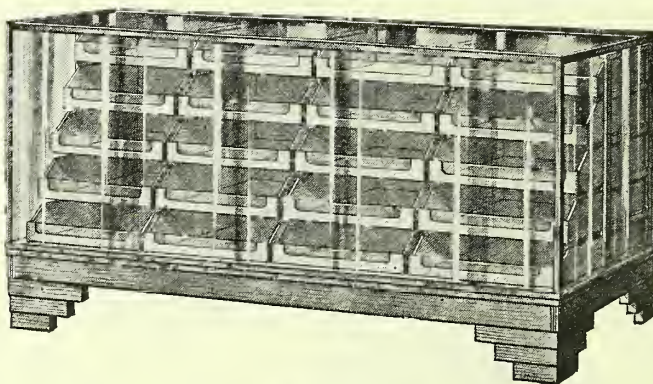
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For destroying Blackbeetles, Cockroaches, Crickets, &c.

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AMSTERDAM-C. HOLLAND: PLANTAGE FRANSCHELAAN 32

## News of the Week

### Business Changes

MALEY, LTD., have opened a pharmacy in Strand Street, Douglas, Isle of Man.

MR. A. G. BROWN, M.P.S., has taken over the business of Mr. W. Hindson, M.P.S., 136 King Street, Ramsgate.

THE headquarters of the National Chamber of Trade, on and after May 23, will be at Westminster Chambers, 3 Victoria Street, London, S.W.1.

### Import Duties Advisory Committee Notice

The Import Duties Advisory Committee give notice of an application for the addition to the Free List of raw Oiticica Oil. Any representations which interested parties may desire to make in regard to this application should be addressed in writing to the Secretary, Import Duties Advisory Committee, Shell-Mex House, Strand, London, W.C.2, not later than June 9, 1938.

### British Chemical Plant Manufacturers' Association

At the first Statutory General Meeting, held recently, of the Association (which Association has taken over the assets, liabilities and activities of the original unincorporated British Chemical Plant Manufacturers' Association), the following officers were elected to serve for the year 1938-39:—*Chairman*, Mr. J. W. Wright; *Vice-Chairman*, Mr. B. L. Broadbent; *Hon. Treasurer*, Mr. W. S. Knight. The secretary is Mr. J. Davidson Pratt, O.B.E., M.A., 166 Piccadilly, London, W.1.

### Proprietary Articles Trade Association

#### ADDITIONS TO PROTECTED LIST

Samona, Ltd., Samona tablets, stamped, No. 1, for men, 3s., 27s. doz.; 5s., 45s. doz.; No. 2, for women, 3s., 27s. doz.; 5s., 45s. doz. Aimée Lloyd & Co. (1933), Ltd., A. S. Lloyd's Euxesis, new size, 6d., 4s. doz. Icilma Co., Ltd., Icilma vanishing cream, new size jar, 6d., 4s. 9d. doz., subject to usual terms.

#### ALTERATIONS

Aimée Lloyd & Co. (1933), Ltd., A. S. Lloyd's Euxesis, 2s. 9d. tube withdrawn as from May 30. Coty (England), Ltd., eau de Cologne Chypree, prices in the P.A.T.A. Year Book, 1938, should be 5s., 42s. doz.; 3s., 25s. 3d. doz.; toilet powder, No. 060, 2s. 3d., 18s. 11d. doz.; compact, platinum finish, 3s., 25s. 3d. doz.; compact refills, 067, 1s. 6d., 12s. 7d. doz.; cream rouge, 94, 2s., 16s. 10d. doz.; brilliantine, 032A, 2s., 16s. 10d. doz.; talc de Coty, 093, 2s., 16s. 10d. doz.; essences, ½-oz. size, all perfumes excluding Jasmin de Corse, 055, 6s. 6d., 54s. 8d. doz.; eau de Cologne Cordon Rouge, 4-oz. size, 2905, 4s. 6d., 38s. doz.

#### DELETION

Du Menier Laboratories, Tri-Trol germicidal soap.

### Birmingham

P.D.A. BRANCH OFFICERS.—At the annual meeting of the Birmingham and District Branch of the Photographic Dealers' Association, held on May 5, the following officers were elected: *Chairman*, Mr. C. T. Thonger; *Vice-Chairman*, Mr. L. Ingram; *Secretary*, Mr. L. W. Hurcomb; *Treasurer*, Mr. J. Riley; *Committee*, Messrs. Billington, Braithwaite, Eades, S. Gale, Juggins, Mason, Riley, G. W., Roach and Walker. A resolution was passed thanking the committee for their past work. A lantern lecture, "Faults in Negatives," by Mr. J. E. Billington, which followed, was much appreciated, and a vote of thanks was accorded to the lecturer and to Agfa Photo, Ltd., for loan of slides. Mr. Harold Warner (area representative) who was introduced by the chairman, gave a talk on recent activities of the National Council. Discussion followed, after which Mr. Gale proposed a vote of thanks to Mr. Warner. This was carried in an appreciative manner.

### Brighton

ELECTION OF OFFICERS.—The annual meeting of the Brighton, Hove and District Branch of the Pharmaceutical Society was held on May 12, Mr. Tilbury (chairman, 1937-38) presiding. There was discussion on the resolutions to be brought forward at the Edinburgh Conference; consideration of the Tees-side Branch's code of ethics was referred to a subcommittee consisting of Messrs. Franklin, Mackie, Phillips, Plowright, with Edgar Jones (secretary). New officers were elected as follows:—*Chairman*, Mr. A. J. Franklin; *Vice-Chairmen*, Messrs. Tilbury and Mumford; *Treasurer*, Mr. H. R. Gwatkin; *Auditor*, Mr. W. G. Northey; *Joint Secretaries*, Messrs. Edgar Jones and F. A. Thomas; *Committee*, Messrs. H. A. Baker, T. Harper, J. A. Jagger, J. S. Padwick, G. F. Paterson, A. J. Plowright, J. Plowright and F. Rees-Morgan, and W. A. Tucknott. Mr. Franklin expressed the special thanks of the Branch to Mr. J. Plowright for his secretarial services. Every member, he said, regretted Mr. Plowright's decision to retire. Messrs. H. B. Mackie, R. B. Mumford and J. Plowright were elected as representatives to attend the Conference.

### Chester

OFFICERS RE-ELECTED.—The annual meeting of the Chester and District Branch of the Pharmaceutical Society was held on April 21. A supper preceded the meeting. The following officers were re-elected:—*President*, Mr. H. W. Wallis; *Vice-President*, Mr. A. G. Stewart; *Treasurer*, Mr. J. H. Hopley; *Secretary*, Mr. J. Williams. The secretary reported that many members had expressed willingness to attend classes of instruction in Air Raid Precautions. It is hoped that arrangements

## CONTENTS

See p. 593



will soon be completed for such classes. Mr. Wallis then gave a brief address, in which he suggested simplification of local administration. On the question of employee organisation, the Society, he said, was seeking for some intimation of the feeling among employee members. The rival claims of recognised trade-union supporters and of those who wished for purely pharmaceutical organisation had to be considered. He thought the Society would be willing to lend its organisation to assist in the formation of an autonomous body, although this would have to be independent of the Society on the lines of the National Pharmaceutical Union. At the close of the meeting votes of thanks to members of the executive were passed.

### Leicester

**VISIT TO LABORATORIES.**—A party of students from the School of Pharmacy, Leicester College of Technology, visited Evans' Biological Institute, Runcorn, on May 5. They were entertained to lunch, and welcomed by Mr. C. E. J. Sendall (director). The manufacture of biological products, including serums, liver extract, etc., was demonstrated. Thanks were expressed by Mr. A. Chamings, Dr. Mitchell (director of the Institute) replying.

**BRANCH OFFICERS.**—The annual meeting of the Leicester and Leicestershire Branch of the Pharmaceutical Society was held recently, Miss Perkins, Ph.C., presiding. The secretary (Mr. F. Purse) reported that in the A.R.P. scheme over sixty pharmacists were now receiving instruction in separate classes of their own. The following officers were elected:—*Chairman*, Mr. E. B. Ward; *Vice-Chairman*, Mr. C. Gunn; *Secretary and Treasurer*, Mr. F. Purse; *Social Secretary*, Miss M. H. Perkins; *Assistant Secretary*, Mr. C. W. Leake; *Auditors*, Messrs. Blockley and Buswell; *Committee*, Messrs. Berry, Cave, Clark, Collison, Fitchett, Hackett, Squires, Stevens, Brownlow, J. Eagle, Stiles and Tomlin; *Delegates to the Conference*, Miss Perkins, Messrs. Gunn and Purse.

### London

**SAFETY CONGRESS.**—The National Safety Congress will be held in the Caxton Hall, Westminster, London, S.W.1, from May 24 to 28. Among papers to be read are "The Year's Work of the Industrial Section," by Mr. L. E. Mather (Mather & Platt, Ltd.), and "Fire Prevention in Industry," by the fire adviser to the Home Office.

**FAIRCHILD SCHOLARSHIP AND PRIZES.**—Intending candidates are reminded that June 1 is the latest date of entry for the above. If certificate of birth and other necessary papers have been sent to the Pharmaceutical Society for entry to other examinations, this may be stated on the Fairchild application form and particulars will be verified. Syllabus and application form may be obtained from Mr. H. Skinner, c/o Fairchild Brothers & Foster, 65 Holborn Viaduct, E.C.1.

**NATIONAL ASSOCIATION OF WOMEN PHARMACISTS.**—The Association has invited Miss M. E. Buchanan and Mrs. Freke (past members of the Pharmaceutical Society's Council) to become honorary vice-presidents as a recognition of work done for the Association since its formation. Mrs. Freke will also serve on the committee. Any qualified woman who wishes to join the Association is invited to write to the secretary, Miss G. Hindes, 15 Holland Road, London, W.14.

**HOSPITAL APPOINTMENT.**—Mr. Stanley Shaw, formerly assistant pharmacist at Leeds Infirmary, is taking up a similar appointment at St. Leonard's (L.C.C.) Hospital, London, N.1.

### Manchester

**N.P.U. BRANCH OFFICERS.**—At an executive meeting of the Manchester, Salford and District Branch of the National Pharmaceutical Union, held on May 12, the following officers were elected:—*Chairman*, Mr. A. E. Thorpe; *Vice-Chairman*, Mr. H. Steinman; *Treasurer*, Mr. G. H. Haines; *Secretary*, Mr. T. Miller. It was decided to continue the scheme of simultaneous displays of goods of Chemists' Friends manufacturers that has been in operation for over a year.

**CIVIC CENTENARY.**—Mr. J. W. Wood, as president of the Manchester Pharmaceutical Association, and Mr. J. H. Franklin, as chairman of the local Branch of the Pharmaceutical Society, were present by official invitation at the civic centenary service held at Manchester Cathedral on May 8. With the Lord Mayor and members of the Corporation they took part in the procession from the Town Hall.

### Mansfield

**OFFICERS RE-ELECTED.**—At the annual meeting of the Mansfield and District Branch of the Pharmaceutical Society, held on May 12, the retiring *Chairman* (Mr. P. D. J. Spaanderman) was re-elected. Mr. Spaanderman expressed thanks and reminded members that, though the social committee had been able to make comparatively large grants to the Benevolent Fund, it was still as important that members should include a subscription to that fund in their annual cheque to the Society. Mr. G. R. Mitchell was elected *Vice-Chairman* in succession to Mr. G. O. Smith, and the retiring *Secretary* (Mr. F. L. King, 5 Nottingham Road, Mansfield, Notts) was re-elected. Also re-elected were the *Treasurer* (Mr. A. R. Jesson) and Mr. W. O. Pegg (*Member of the Committee*).

**DINNER AND DANCE.**—At a dinner and dance organised by the ladies' social committee of the Mansfield and District Branch of the Pharmaceutical Society, recently, the toast "The Social Committee" was proposed by Mr. J. T. Appleton, Sheffield. The function took place at "The Hut," Newstead Abbey. Mr. Appleton declared that the needs of the Society's Benevolent Fund were growing on account of the cash reserve in the War Auxiliary fund having become exhausted. He conveyed a message of thanks and appreciation from the fund treasurer (Mr. H. Antcliffe) and assured his hearers that every penny raised by the Committee would be put to a useful purpose, since there were no administrative expenses. The chairman of the committee (Mrs. P. D. J. Spaanderman) thanked Mr. Appleton and her committee for support. Mr. F. L. King, toasting "The Visitors," referred to the coincidence of the dinner with the thirty-third anniversary of the wedding of Mr. and Mrs. W. Lee, Nottingham, to whom she presented on behalf of the Committee a suitably inscribed telephone pad. Miss L. B. Jesson, M.P.S., proposed "The Gentlemen," for whom Mr. P. D. J. Spaanderman responded.

### Sheffield

**COUNCIL CANDIDATES' SPEECHES.**—On May 9 two candidates for the Society's Council election, Mr. Hodgson, Leeds, and Mr. F. C. Wilson, Bradford, addressed a joint meeting of the Sheffield and District Branch of the Pharmaceutical Society and the Sheffield Pharmacy Club. After outlining their policy, the candidates replied to many questions.

**WORKS VISIT.**—Seventy members of the local branch of the Pharmaceutical Society visited the refinery of the British Cod Liver Oil Producers (Hull), Ltd., on May 12. The visitors were received by Mr. MacLennan (general manager); and were addressed by Mr. Hudson (chairman, British Trawlers' Federation). After tea the party inspected the refinery and laboratories. Mr. Blackburn and Mr. Greenstreet expressed appreciation on behalf of the branch. Picture, p. 579.

## Irish Notes

### Ulster Chemists' Association

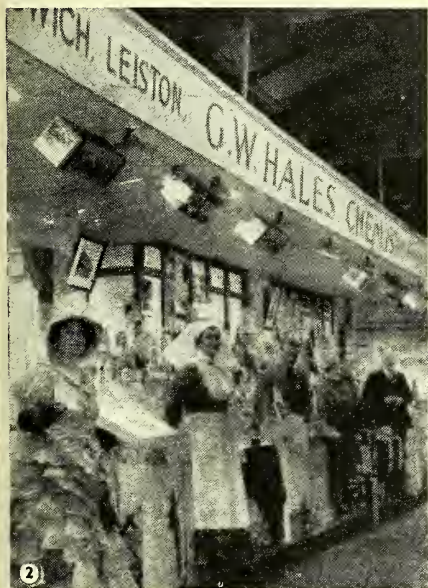
The monthly meeting of the Executive Committee of the Ulster Chemists' Association was held recently, the president (Mr. R. Linehan) in the chair. The secretary reported that another letter had been sent out to chemists who had not replied to previous letters concerning the prescription-coding scheme, but it was to be regretted that only a small number of replies had been received. It was agreed that, in addition to the advertising during May, June and July, Mr. Cavan (the advertising specialist) should submit to the advertising committee two alternative schemes to commence on September 1 next, giving their probable cost. A deputation from the Individual Traders' Association attended and was welcomed by the president. Mr. Carter, on behalf of the deputation, explained the objects and ideas of his association, and answered several questions put by committee members. The president made it clear that it was entirely a personal matter for each member of the U.C.A. and that the Executive Committee could not influence members to join the Individual Traders' Association, but would, if an opinion were requested, inform inquiring members that there was no objection. A number of price alterations were considered and adopted.

### Irish Drug Association

Mr. P. A. Brady (president) was in the chair at a meeting of the committee of the Irish Drug Association held on May 9. In response to a request from the Department of Industry and



## News in Pictures



4. A.R.P. DISPLAY—Window show of Air Raid Precautions accessories at Prior & Co., Londonderry, the oldest pharmacy in Ireland.

5. MUSEUM PHARMACY—Apothecary's shop assembled at Castle Museum, York (Kirk Collection of Bygones) from Georgian shop windows and door, old appliances, pharmaceutical apparatus, etc.)

6. NARCOTIC SMUGGLING DEVICE—Garment with buttons used for secreting Indian hemp (open buttons shown at 5 and 6), (Courtesy, "Daily Telegraph and Morning Post.")

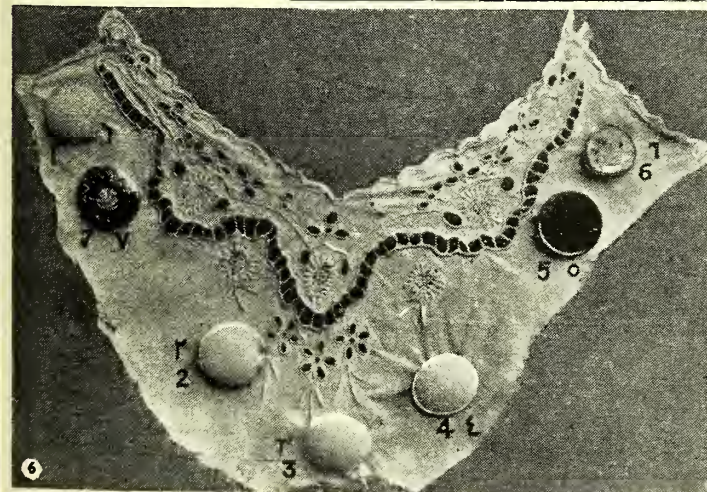
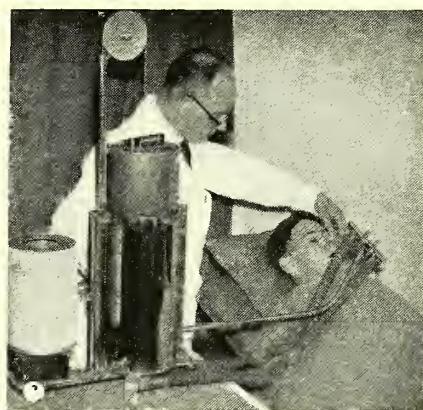
7. AN IRISH DISPENSARY—Compounding department of Mr. Fawcett Maxwell, Ph.C., Dalkey, fitted with teak bench, air extractor, high-pressure filter for sterile water, etc.



1. SHEFFIELD CHEMISTS' OUTING—Members of the Sheffield and District Branch of the Pharmaceutical Society photographed at Sheffield prior to their visit to Hull (p. 578).

2. AT IPSWICH EXHIBITION—Stand of Mr. G. W. Hales, M.P.S., at the recent Ipswich Municipal and Suffolk Industries Exhibition.

3. NEW MEDICAL SCHOOL—Estimating oxygen absorption at Westminster Hospital school of medicine, opened on May 12.





Commerce for a representative on the Court of Referees, Mr. J. J. Roche, Dublin, was appointed. The committee directed members' attention to the conditions under which poisonous substances may be sold, pointing out that it is illegal to sell spirit of salt, nitric and sulphuric acids, liquid preparations containing more than 5 per cent. by weight of free ammonia, and liquid preparations sold as carbolic, or carbolic disinfectants, unless the bottle or container be distinctly labelled with the name of the substance; the words "Poisonous—Not to be Taken"; and the name and address of the seller. Further, the container must be distinguishable by touch from ordinary bottles. Members were strongly recommended to adopt the special precautions required by law when dealing with the sale of poisonous substances, particularly draught sales, and not to sell, for example, spirit of salt or ammonia in a mineral-water bottle. Correct labelling, the Committee added, equitable measures, and proportionate Association prices should be more strictly adhered to. Under the Shops (Hours of Trading) Act it was decided that Wednesday should be the half holiday in Greater Dublin, including Dun Laoghaire borough, Whitehall, Donnycarney, Killester, Dollymount, etc., except for certain shops in streets where other traders close completely on another day. A suitably worded card for use in connexion with Sunday and half-holiday trading is to be circulated to members in the course of a few days.

## Scottish Notes

### Edinburgh

BRANCH MEETING.—The annual meeting of the Edinburgh and South-Eastern Scottish Branch of the Pharmaceutical Society was held at 36 York Place, Edinburgh, on May 6, Mr. J. B. Mitchell, chairman of the Branch, presiding. Mr. C. G. Drummond indicated that the session had been highly successful and that there was a satisfactory balance in hand. A sub-committee had been appointed to examine the scale of dispensing charges. Negotiations relating to air-raid precautions were in hand with Dr. Nairn Hay, and members would be communicated with to ascertain what support might be expected for a course of training. An important item was the arrangements for the meeting of the British Pharmaceutical Conference in Edinburgh in September. The occasion would be one in which active help by all Branch members, financial and otherwise, was essential. The voluntary agreement as to a closing scheme relating to closing on the Wednesday half-day in a week in which a public holiday occurred was being satisfactorily maintained. The Branch membership stood at 887,

made up of 873 members and 14 student-associates. The following office-bearers were elected for the ensuing year:—*Chairman*, J. B. Mitchell; *Vice-Chairman*, Mr. James Henry; *Secretary and Treasurer*, Mr. Charles G. Drummond; *Committee*, Miss Olive W. Scarlett, Messrs. W. A. Beattie, John Gilmour, David Harley, Eric Knott, J. H. Macpherson, Peter Nisbet, Gordon Perrins, James C. Somerville, James R. Sutherland, J. H. Tainsh and Thomas Wilson; *Conference Delegates*, the chairman, vice-chairman and secretary, Misses Brindle and Morrison, Messrs. Beattie, Macpherson, Sutherland and Tainsh.

### Scottish Chemists' Golf Competition

The Scottish chemists' golf tournament was held at Glen-eagles on May 11. There was a strong cross wind which made scoring difficult, and the greens were exceptionally fiery after the long-continued drought. At the distribution of prizes, before calling on Mr. Graham (T. & H. Smith & Co., Ltd.), to hand over the prizes, Mr. James Finlay, of Edinburgh, asked those present to allow him to put two propositions before them. Mr. James Finlay proposed that Mr. T. Harkness, who for the last six or seven years had been honorary secretary for the tournament, should be voted an honorarium of three guineas per annum. The motion was agreed to. He also proposed that as there was a balance of over £10 in hand, and the British Pharmaceutical Conference was this year to be held in Edinburgh in September, that a donation of three guineas be handed over towards the funds of the Conference. This was seconded by Mr. James Low and unanimously agreed to; Mr. Graham (T. H. Smith & Co., Ltd.), then presented the prizes to the following competitors:—*Travellers' Trophy*: (1) J. W. Erasmusson, (2) J. McConnach. *Scratch Prize* (Duncan Flockhart & Co.): (1) J. Finlay, (2) R. Webster. *Pears' Trophy*: (1) H. Gauld, (2) P. F. Kelly. *Neel Prize*: (1) D. Mathewson, (2) F. C. J. Lawford, (3) W. Seivwright. *J. & J. Trophy*: (1) J. P. Gibb, (2) W. J. Moffat. *John Greig Prize* (Bogey): (1) James Low, (2) R. Moffat. *Maclean Prize* (Best nine holes): (1) J. Robertson, (2) R. M. S. Pollock, (3) J. H. Tait, (4) D. H. Cook. *Blythen Astly Prize*: (1) A. J. Howie, (2) W. Wood-Wilson, (3) H. W. Thomas. *Hidden Holes*: (1) A. Scott, (2) W. F. Taylor. *Wholesale Section*: (1) W. E. Herd, (2) M. C. Ross. *D. W. Gibb's Trophy*: (1) No. 1 *District*: *Glasgow and Lanarkshire*: J. W. Erasmusson, R. M. S. Pollock, A. Robertson, T. W. Macmaster. (2) No. 3 *District* (Northern): P. F. Kelly, S. Brunton, J. McConnach, J. Robertson. On behalf of the players, Mr. MacSween expressed thanks to those who had so generously presented prizes. About 110 took part in the competition.

# Topical Reflections

By Xrayser

### Third Parties' Claims

Your readers owe you thanks for promptly setting forth (p. 554) the implications of the High Court judgment in the case of *Square v. Model Farm Dairies* (Bournemouth), Ltd., delivered on May 10. Many of us, I believe, were not quite clear as to the relation of what for brevity I may call the snail case—the decision, it may be remembered, was ultimately given by the House of Lords—to the new case. For my present purpose it suffices to quote the penultimate sentence of your article: "The Court was of opinion that the above provision [that of Section 2 of the Food and Drugs (Adulteration) Act, 1928] created a statutory duty, not only towards the purchaser, but also towards any consumer of the article supplied, and that the remedy for a breach of the duty included the right to recover damages by civil action." I am not enamoured of the pastime of legal conundrums; but I may point out that the practical importance of the statement just quoted is far-reaching. Although, for instance, a chemist may stand in no contractual relation with a third person who may be induced to take a medicine supplied by the chemist to a customer, he runs the risk of an action for damages if this third person believes, or professes to believe, that the medicine has adversely affected his own health. I should be prepared to argue that such an action was illfounded, and I trust it would be dismissed; but it is

common knowledge that many people have a habit of recommending medicines to their friends.

### Veterinary Trade

As I was reading the informative articles on veterinary subjects in your last week's issue, there came to my memory no obvious reason why owners of dogs and cats should not spend as much money on them as on, say, toilet accessories. Veterinary medicines form, surely, a constituent part of a chemist's stock rather than a side-line. The importance of having more than a superficial knowledge of their uses may be stressed. We are far from the time when the farmer could spend a leisurely day in his market town and trust to his horse to take him home at night. Not long ago I heard details of the career of a young man who had succeeded so brilliantly in his university studies that he had an enviable choice of appointments: he rejected them all in favour of farming. To sell veterinary medicines acceptably to such people the pharmacist must have a backing of sound knowledge. He should make himself familiar with their point of view, and should recognise their acquisition of practical experience in diagnosing animal ailments. The same type of salesmanship is useful, *mutatis mutandis*, in handling remedies for domestic pets.



## Legal Reports

**Arbitrators' Award Set Aside.**—A dispute in regard to a contract for the supply of edible olive oil was adjudicated upon in a King's Bench Divisional Court, London, on May 16, by Justices Macnaghten and Lewis. Evans, Gray & Hood, Ltd., Fish Street, London, E.C., entered into a contract on October 5, 1937, to sell to G. di Paola & Sons, Kingston Street, Glasgow, "twenty-five drums of finest French cream edible olive oil at 7s. 3d. per gallon. Shipment about the end of November." As the oil did not arrive in the time expected, the buyers refused to take delivery. The matter was then referred to arbitrators, who awarded in favour of the sellers and ordered the buyers to take delivery and pay expenses and interest from the date of the arrival of the steamer. The buyers now asked the Court to set aside the award. Mr. G. Alchin, for the buyers, said the arbitrators were not put in possession of all the facts and never gave the parties an opportunity to attend. The oil was to be a November shipment, and, as it had not arrived by December 4, the buyers cancelled the contract. Mr. Wynn Werninck, for the sellers, said the dispute was really whether it was a November shipment. The bill of lading was dated November 29 and therefore the buyers ought to take delivery. The oil arrived on December 21. Mr. Justice Macnaghten, giving judgment, said the award was unintelligible and must be set aside. The parties must proceed to a fresh arbitration before a legal arbitrator. As both parties acted unreasonably, they must pay their own costs.

**Pharmacy and Poisons Act Cases.**—At Brentwood Police Court, on May 12, Mr. H. A. Clarke, M.P.S., 60 High Street, Brentwood, was summoned by the Pharmaceutical Society for four offences on March 1 of failing to retain on the premises, available for inspection, prescriptions given by medical practitioners, after selling a poison in tablets. Mr. A. C. Castle, prosecuting for the Society, said that he wished to make it clear that no imputation was made against Mr. Clarke either as a private individual or as a chemist. The case, however, was very important, particularly so far as retail chemists were concerned. Certain poisons could only be purchased on the prescription of a qualified practitioner or veterinary surgeon, and it was necessary that the prescription should be retained afterwards by the chemist for two years, in a place on the premises where it would be readily available for inspection. It must not be kept in some out-of-the-way place. When an inspector appointed under the Poisons Act called at defendant's shop to see the four prescriptions they could not be found. Evidence was given by Mr. Cyril Morgan, an inspector under the Pharmacy and Poisons Act. Defendant, in evidence, admitted he should have known the regulations. He realised he was in error and he had done his best to rectify the matter by obtaining the prescriptions in question from the people who had bought them originally. He had got them all back except one, which had been destroyed. Mr. R. Nott-Bower, defending, submitted that it was merely a technical offence and that defendant had been guilty of an oversight. Chemists had no simple task nowadays trying to bear all these things in mind. The chairman said the bench were of the opinion they were not merely technical offences. Defendant was fined £1 on each summons, with £2 2s. costs.

At Liverpool Police Court on May 13 Mr. A. S. Galloway, M.P.S., pleaded "Guilty" to a charge of selling by retail in his shop at Lime Street, Liverpool, a poison contained in Part I of the Poisons List—solution of morphine hydrochloride contained in a mixture—such sale not being effected by or under the supervision of a pharmacist. Prosecuting for the Pharmaceutical Society, Mr. E. McManus said that on March 16 the Society sent an agent into the Lime Street shop with a prescription containing, amongst other things, a solution of morphine hydrochloride. It was dispensed by an assistant, who was not a registered pharmacist. Mr. Galloway was not in the shop. He had a qualified manager, who was also absent. For defendant, Mr. J. M. Wilson said the shop had a qualified manager and three unqualified assistants. This day was the manager's half-day holiday, and it was usual on such occasions for Mr. Galloway to supervise in the shop. Mr. Galloway had now arranged to have two qualified chemists in the shop. A fine of £10 was imposed.

## Company News

**P.C. means Private Company and R.O. Registered Office**

**RAYMOND COPE, LTD. (P.C.).**—Capital £1,000. Objects:—To acquire the business of a pharmaceutical chemist carried on by R. Cope at 2 Cawdry Buildings, Leek, Staffs. Raymond Cope, Roscliffe, Abbots Road, Leek, director.

**EPSOTABS, LTD. (P.C.).**—Capital £2,000. Objects:—To acquire the undertaking and assets of Laxative Distributors, Ltd., (formerly Epsotabs, Ltd.) and to carry on the business of chemists, etc. John Gaw, 385 London Road, Ewell, director.

**PILAX, LTD. (P.C.).**—Capital £500. Objects:—To carry on the business of chemists, manufacturers and dealers in drugs, medicines, etc. Bertram S. Page, Stanley House, Darley Avenue, W. Didsbury, Manchester, director. R.O.: 22 Booth Street, Manchester, 2.

**CONNOR & SONS, LTD. (P.C.).**—Registered in Belfast. Capital £10,000. Objects:—To acquire the business of chemists and druggists carried on under the style of S. Connor & Sons. John E. Connor, 79 Hill Street, Newry, chemist, director. R.O.: 79 Hill Street, Newry.

**PHOTOGRAPHIC AND TECHNICAL LABORATORIES, LTD. (P.C.).**—Capital £100. Objects: To carry on the business of photographic and cinematographic experts, scientific research workers, etc. The directors are not named. Solicitors: Harrington Noble & Co., 376, Strand, W.C.2.

**PHOTOSCOPE, LTD. (P.C.).**—Capital £2,500. Objects:—To carry on the business of manufacturers of and dealers in all kinds of chemicals, materials, appliances and apparatus and equipment for use in connexion with photography, cinematography, etc. Solicitors: Smiles & Co., 15 Bedford Row, W.C.1.

**NATURAL FERTILISER (DOMINIONS AND COLONIES), LTD. (P.C.).**—Capital £3,500. Objects: To carry on the business of manufacturers of preparations for the enrichment of the soil, and of aids and remedies of all kinds for agricultural purposes, etc. Lord Cecil C. Douglas, 32 Grosvenor Street, W.1, director. R.O.: 12 Nicholas Lane, E.C.4.

**JOHN WOOD (SOMERVILLE PHARMACY), LTD. (P.C.).**—Capital £500. Objects:—To acquire the business of a retail chemist carried on by John Wood at 164 Poulton Road, Wallasey, Cheshire, as John Wood Somerville Wallasey. John Wood, 8 Silverbeech Road, Wallasey, pharmacist, director. R.O.: 3 Stanley Street, Liverpool.

**DEFENCE EQUIPMENT, LTD. (P.C.).**—Capital £100. Objects: To carry on the business of manufacturers of and dealers in equipment, chemicals, apparatus and devices for use in the defence or protection of the civil population, etc. The first directors are to be appointed. Solicitors: Gery & Brooks, 10 Old Cavendish Street, W.

**APPLIANCES FOR RESUSCITATION PURPOSES, LTD. (P.C.).**—Capital £1,000. Objects:—To carry on the business of manufacturers of and dealers in apparatus for resuscitation of human life, particularly in cases of poisoning by gases, and of suffocation, asphyxiation, drowning and collapse owing to natural causes. Directors are not named. Solicitors: Mayo, Elder & Co., 10 Drapers Gardens, E.C.2.

**BRITISH ALKALOIDS, LTD.**—A final dividend declared of 17.19 per cent. on the 8 per cent. participating preference shares, making a total of 25.19 per cent. for the financial year to March 31, 1938 (19.12 per cent. in the previous year), and a dividend of 30 per cent. on the ordinary shares, making a total of 42 per cent. for the year (30 per cent. in the previous year).

**GRIFFITHS HUGHES PROPRIETARIES, LTD.**—The directors propose to pay a final dividend on the ordinary shares for the nine months ended March 31 of 4 per cent. This makes 6½ per cent. for the period, against 11 per cent. for the preceding year. The date of the financial year has been changed so as to coincide with that of the operating company, E. Griffiths Hughes, Ltd. For the past year the profit of the operating company was £162,196, against £234,401 for the preceding year. After deducting the dividends and providing £49,000 for taxation there will remain a balance of £20,236 (against £20,791) to be carried forward.



# Birmingham Analyst's Report

DURING the first quarter of 1938, 1,507 samples were examined by the Birmingham Analytical Department, of which sixty-five were bought formally and 1,442 informally. Of the 126 drugs examined, eighteen samples were found to be incorrect. Detailed accounts on some of the drugs analysed are as follows:—

**IODINE OINTMENT.**—According to the B.P.C., this should contain 4 per cent. iodine. What was actually supplied was stainless iodine ointment B.P.C., which should contain 5 per cent. of iodine. The sample examined, however, contained only 3.5 per cent.—a deficiency of 30 per cent. The manufacturers stated that they were now producing the ointment within reasonable limits of toleration, standardised to 5 per cent. by a cold process, as they had previously had difficulties when relatively high temperatures were used, due to separation of polymerised iodised nut oil. It was possible that the ointment supplied was made twelve months ago and was taken from a batch from which separation had occurred subsequent to assay. They submitted that the present method of manufacture would prevent any loss due to polymerisation in future supplies. A second sample supplied was also stainless iodine ointment, and was found to contain 2.5 per cent. iodine—a deficiency of 52 per cent. Full responsibility was taken by the suppliers for the error and assurance given that there would be no recurrence.

**KAOLIN POULTICE.**—This should contain 52 per cent. kaolin, 4.5 per cent. boric acid, and 42.5 per cent. glycerin. Six samples in all were examined, five of which showed a composition close to this formula. The sixth, however, contained an excess of boric acid amounting to 15 per cent. The manufacturers proffered an explanation which was considered unsatisfactory and a caution was given.

**LIGHT MAGNESIA.**—At six different pharmacies, where this was requested, carbonate of magnesia was supplied, in five of which the article was labelled as carbonate. Although light magnesia is given as a synonym in the British Pharmacopœia under mag. oxid. lev., it has been a trade custom for some years among many pharmacists to supply the carbonate, but this practice is not universal—one may supply the oxide, while another the carbonate. The oxide has twice the neutralising value of the carbonate, but the latter is half the price of the oxide. The six pharmacists concerned agreed that the public expect to get the carbonate and that it was the trade custom to supply it, in spite of the fact that technically it was correct to supply the oxide.

**AMMONIATED QUININE.**—A sample of the tincture examined contained only 0.81 per cent. of ammonia—a deficiency of 19 per cent. The vendor agreed to withdraw the stock from sale. A sample of ammoniated quinine tablets contained only 1.4 grains of ammonium bicarbonate per tablet—a deficiency of 46 per cent. It was pointed out to the vendor that the point at issue was that a definite formula was given on his label, but no hint was given to the purchaser that the tablets were liable to loss of ammonia by volatilisation. It was pointed out that the majority of makers printed statements to the effect that one tablet is equivalent in quinine content to a drachm of ammoniated tincture, but the ammonia content could not be guaranteed owing to the volatility of this ingredient. The vendor agreed to re-label his stock. Another sample of these tablets contained only 0.83 grain instead of 1.09 grains of quinine sulphate—a deficiency of 24 per cent. On being advised of this the vendor withdrew the tablets from sale. A third sample contained only 0.32 grain of ammonia—a deficiency of 30 per cent. These also were withdrawn from stock.

## Imperial and Foreign News

### Australia

**CHAIN STORES AND THE PARLIAMENTARY ELECTIONS.**—In the recent elections in New South Wales and South Australia the Labour and Independent groups supported the policy of "No further extension of company pharmacy."

**NATIONAL HEALTH INSURANCE.**—Experts appointed by the Federal Government are at present engaged in drafting legislation in connexion with a scheme of National Health Insurance. Simultaneously, conferences are taking place with bodies whose interests are likely to be affected.

### Honduras

**PATENT-MEDICINE REGISTRATION.**—By a decree of the Honduras Congress, published recently, a fee of 10 lempiras will be levied for the registration of patent medicines, in addition to a licence fee of 5 lempiras for each product. The provisions of this decree do not affect privileges accorded to products previously registered in Honduras. Formerly, vendors of commercial specialities were required to pay 50 lempiras for all registration costs, including chemical analyses. For scientific specialities the corresponding costs were 20 lempiras for registration and analysis.

### Italy

**ROME CONGRESS.**—British delegates to the tenth International Congress of Chemistry, Rome, May 15 to 21, left England on May 12. They included Dr. J. J. Fox (chief Government chemist) and Mr. J. Davidson Pratt (general manager, Association of British Chemical Manufacturers). An exhibition of British scientific literature, the first ever to be shown in a foreign country, will be open during the Congress.

### Japan

**VISCOSE TOOTH-BRUSH BRISTLES.**—Artificial bristles for tooth-brushes are stated to have been perfected by the Osaka Industrial Research Laboratories recently. The bristles are manu-

factured by processing viscose threads through solutions of uric acid, which makes them extremely resistant to water. The diameter of the bristles may be altered at will, and brushes incorporating the new bristle can be made at one-fifth the cost of those containing real bristles.

**RESEARCH INSTITUTE.**—To facilitate research on Far Eastern materia medica, a pharmaco-chemical institute is to be added to the medical department of Keio-Gijuku University, Tokyo. Ten research workers of the University, under the director of its pharmacological institute, will give full time to the project. Drugs to be investigated will be gathered from Japan, Manchukuo, China and other parts of the Orient. Among plants investigated recently by the director are Korean ginseng, *Panax quinquefolia*, *Epimedium macranthum*, *Cunninghamia Konishi*, and *Actinidia polygama*.

### South Africa

**A.P.S. CONFERENCE.**—At the annual conference of the Associated Pharmaceutical Societies of South Africa (see *C. & D.*, April 30, p. 495), it was announced that a deputation would wait on the Minister of Public Health as soon as possible after the general election in May, asking him to deal firmly with the huge increase of "quackery" in South Africa. Among other matters dealt with by the conference was Sunday hours of working. It was suggested that Sunday morning and holiday morning hours of business should be abolished, since the chemist, being allowed to sell only urgent medicines in these hours, was deprived of his holiday without adequate recompense. It was felt that chemists' shops should either be open on full licence during such hours or not at all. At the conference banquet Dr. A. J. Milne (Medical Officer of Health, Johannesburg) said that medical practitioners in South Africa should not dispense their own prescriptions. He insisted that medical practitioners had only reached the novice stage in the handling, and especially the dispensing, of drugs, while the chemist and druggist was highly qualified.



# New French Codex

THE new French Codex (Codex Medicamentarius Gallicus VI) which came into force at the beginning of April is the result of work commenced in 1922 by the Codex Commission. The book, which is published in two volumes, contains 1,299 items (*see C. & D.*, February 12, 1938, p. 179). The first volume consists mainly of matters relating to the practice of pharmacy and sales of poisons, together with general analytical and technical data of use in pharmacy. Much space has been devoted to a complete list of preparations and drugs which appear in the present and all the preceding editions of the publication, and the dates at which the various items have been added are also given. Volume II, which is the larger portion, contains the monographs of the Codex. A departure from the usual style of compiling a pharmacopœia is made by the inclusion of coloured illustrations of medicinal plants, which will serve a useful purpose in their identification and for students of pharmacognosy. The main titles used in the monographs are given in French, while sub-headings appear in Latin. Synonyms and some of the trade names under which the preparations are sold are also included. General information which might be expected to be found in an official work of reference, such as solubility figures, incompatibilities, and amounts of water of crystallisation in different substances, is set out in many monographs. The following is a complete list of the medicaments which have been added:—

Acétone  
Acétylamino-para-oxyphényl-arsinique (acide)  
Adonis vernalis  
Ail cultivé  
Ail (tincture)  
Alcool butylique tertiaire trichloré  
Aloès du Cap  
Amidon de Maïs  
*p*-Amino-benzoyldiéthylamino-éthanol (chlorhydrate de)  
Ampoules  
Anatoxine diphtérique  
Anatoxine staphylococcique  
Anatoxine tétanique  
Arachide  
Arec  
Argent (protéinate)  
Argent (vitellinate)  
Arsenic (triiodure)  
Aubépine (extrait fluide)  
Bardane  
Bardane (extrait stabilisé)  
Bayrum (sulfate)  
Belladone (suppositoires d'extrait et marron d'Inde)  
Bile de bœuf (extrait)  
Bismuth (azotate basique léger)  
Bismuth (carbonate)  
Bourdaine (tisane de)  
Buchu  
Cade (goudron de)  
Calcium (gluconate)  
Calcium (lactate)  
Camomille allemande  
Camphre artificiel  
Carbone (tétrachlorure)  
Charbon végétal activé  
Chaulmoogra (éthér éthylique de l'huile)  
Chénopode vermifuge  
Chloramine T  
Cholestérol  
Chrysanthème insecticide  
Cocaïne (azotate)  
Collodion acide composé  
Collutoire au bleu de méthylène  
Collutoire au dioxydiaminoarséno-benzène-diméthylène sulfite de sodium  
Collutoire néo-arsénobenzol  
Collyre huileux à l'ésérine  
Collyre mixte sulfate atropine et chlorhydrate de cocaïne (vétérinaire)  
Comprimés  
Corps jaune (extrait purifié)  
Corps jaune (soluté injectable d'extrait purifié)  
Corps jaune (hormone du)  
Corps jaune (soluté injectable de l'hormone)  
Cotonnier  
Coton stérile  
Crème au stéarate de Sodium  
Crèmes dermiques  
Créosotal  
Créosote (carbonate de)  
Crins  
Cuivre (sulfate ammoniacal)

Diamino-acridine (chlorhydrate de)  
Digitale (poudre stabilisée)  
Dihydrofolliculine  
Dihydrofolliculine (benzoate)  
Eau bidistillée  
Eau de-vie  
Élixir de terpine et de codéine  
Emplâtre caoutchouté adhésif à l'oxyde de zinc  
Emulsion d'huile de vaseline  
Éphédra  
Éphédrine  
Éphédrine (chlorhydrate)  
Ergot de Seigle (poudre)  
Essence de Chénopode vermifuge  
Essence de Niaouli  
Essence de Niaouli purifiée  
Essence de Sassafras  
Extrait d'Aubépine (fluide)  
Extrait de Bardane stabilisée  
Extrait de bile de bœuf purifié et desséché  
Extraits concentrés pour sirops  
Extrait de Digitale stabilisée  
Extrait de Gentiane stabilisé  
Extrait de Gui stabilisé  
Extrait de Kinkeliba (fluide)  
Extrait de Kola (stabilisé)  
Extrait de marron d'Inde stabilisé  
Extrait de Passiflore (fluide)  
Extrait total d'opium  
Extrait de Valériane (stabilisé)

Fève de Calabar  
Folliculine  
Folliculine (benzoate)  
Fumigation de formaldéhyde

Genêt à halais  
Glycéré à l'acide borique  
Glycéré d'acide tartrique  
Glycéré phénol  
Glycéré phénol composé  
Glycérine phénolée  
Goudron de cade  
Goudron végétal purifié  
Gui

Hormone du corps jaune  
Hormone œstrogène  
Hormone pancréatique  
Huile adrénalinée  
Huile d'Arachide  
Huile de Chaulmoogra  
Huile au chlorure mercurieux  
Huile d'essence de Niaouli purifiée  
Huile à l'iodobismuthate de quinine  
Huile d'olive neutralisée  
Huile de résine  
Huile volatile de Chenopodium  
Huile volatile de Niaouli  
Huile volatile de Niaouli purifiée  
Hypophyse (poudre)  
Hypophyse (poudre de lobe antérieur)  
Hypophyse (poudre de lobe postérieur)  
Hypophyse (soluté infectable de lobe postérieur)

Inosito-hexaphosphate de calcium et de magnésium  
Insuline  
Insuline (soluté injectable)  
Iodo-phtaléine

Kaolin  
Kinkeliba  
Kola (extrait) stabilisé

Lactate de chaux  
Lactique (acide) (dilué)  
Levure de bière  
Limnade tartro-sodique  
Liniment ammoniacal camphré composé  
Liniment térébenthiné

Magnésie (carbonate) (poudre)  
Magnésium (chlorure)  
Magnésium (peroxyde)  
Matricaire Camomille  
Mélange anesthésique au chlorhydrate de cocaïne  
Mélange anesthésique composé  
Mercure (oxycyanure)

Noix d'Arec  
Nucléinique (acide)

Oignon (pulpes)  
Opium (extrait total)  
Ouahaine  
Ovules à l'extrait de Belladone  
Ovules à la glycérine  
Oxyquinoléine (sulfate d'ortho)

Pansements antiseptiques  
Papaine  
Papavérine (chlorhydrate)  
Paraldéhyde  
Passiflore  
Pâte officinale au baume de Tolu et à la codéine  
Pâte de Réglisse officinale au goudron et au baume de Tolu  
Pâtes dermiques  
Pâte à l'oxyde de zinc  
Pâte zincique à l'eau  
Peptone iodée  
Peptone pancréatique  
Peptone pepsique  
Pétrole (éthér de)  
Pétrole (essence de)  
Pétrole (huile de)  
Pétrole (huiles lourdes de)  
Phénol (phthaléine)  
Pilules de Digitale, Scammonée, Scille  
Pilules de protoiodure de fer  
Pilules de terpine et de codéine  
Pommade à l'ichthyolsulfonate d'ammonium  
Pommade à l'ichthyolsulfonate d'ammonium et au goudron de Cade  
Pommade mercurielle helladonée  
Pommade au sulfure de potasse (dite de Milian)  
Potion alcoolisée au rhum  
Potion au chlorure de calcium  
Poudre alcaline composée  
Poudre antiseptique composée  
Poudre antiseptique composée iodo-formée  
Poudre de pancréas  
Poudre de Séné (follicule)  
Poudres stabilisées  
Préparations injectables  
Psyllium

Quinine (bisulfate)  
Quinine (carbonate)  
Quinine (iodobismuthate)  
Rhum  
Saindoux  
Salicaire  
Salicine  
Sassafras (huile volatile) (essence)  
Savon liquide  
Savon mou d'huile de coco  
Scammonée du Mexique

Sérum anticharbonneux  
Sérum antigangréneux  
Sérum antipneumococcique  
Sérum antistaphylococcique  
Sérum normal de cheval  
Sirop d'éthylmorphine  
Sirop d'Eucalyptus  
Sirop de gaïcol sulfonate de potassium  
Sirop d'hypophosphite de calcium  
Sirop d'oxyhéoglobine  
Sirop de suc musculaire  
Sirop de papaine  
Sodium (acétylamino *p*-oxyphénylarsinate)  
Sodium (azotite)  
Sodium (cinnamate)  
Sodium (citrate)  
Sodium (indigosulfonate)  
Sodium (nucléinate)  
Sodium (*n*-phénylglycollamide *p*-arsinate)  
Sodium (sulfite neutre)  
Sodium (tétraiodophthaléinate)  
Soluté d'adrénaline injectable  
Soluté d'adrénaline et chlorhydrate de para-aminobenzoyl-diéthylamino-éthanol  
Soluté alcalin composé  
Soluté antiseptique de phénol salicylé  
Soluté d'argent colloïdal  
Soluté d'azotate d'argent au centième  
Soluté de Dakin  
Soluté d'eau oxygénée à 100 v.  
Soluté d'iode ioduré (Lugol)  
Soluté iodo-ioduré (Tarnier)  
Soluté d'iodures d'arsenic et de mercure  
Solutés opothérapiques injectables  
Solutés savonneux de formol  
Soluté de trinitrotyrosine  
Sparadrap caoutchouté adhésif  
Stéarique (acide)  
Suc musculaire de bœuf  
Sulfate d'alumine (gargarisme)  
Sulfate de baryum  
Sulfate de quinine  
Sulfure de potassium (poly)  
Suppositoires à l'extrait de Belladone et marron d'Inde  
Suppositoires au mercure  
Surrénale (poudre)  
Surrénale (soluté injectable)  
Suspension d'iodobismuthate de quinine

Teinture d'Ail  
Teinture de Passiflore  
Tétra-iodopyrrol  
Théophylline  
Thyroïde (soluté injectable)  
Thyroïxine  
Tisane de Bourdaine  
Tisane de Kinkeliba  
Toxina  
Toxine diphtérique diluée  
Trinitrotyrosine  
Tuberculine (antigène méthylique)  
Vaccin anticholérique  
Vaccin antigonococcique  
Vaccin antipneumococcique  
Vaccin antipneumococcique  
Vaccin antipneumococcique  
Vaccin antirabique  
Vaccin antistaphylococcique  
Vaccin antitypho-paratyphoïdique  
Vaccin antivariolique  
Vert malachite  
Verveine officinale  
Vin de Quinquina avec l'extrait  
Vitamines  
Vitamine A  
Vitamine C  
Vitamine D  
Vitamine D (soluté injectable)

Xylène  
Yohimbine (chlorhydrate de)  
Zinc (phosphure ordinaire)

(To be continued)

WILLING'S PRESS GUIDE, 1938.—The usefulness of this valuable reference book, the sixty-fifth annual issue of which has just appeared, has been considerably enhanced by the extended information given concerning the principal newspapers in the Dominion, Colonial and Foreign sections. Copies, price 2s. 6d., are obtainable from the publishers, Willing Service, 356-364 Gray's Inn Road, London, W.C.1.



# Pharmaceutical Society of Great Britain

## Ninety-Seventh Annual Meeting, London, May 18

THE ninety-seventh annual meeting of the Pharmaceutical Society of Great Britain was held at the Society's headquarters, Bloomsbury Square, London, W.C.2, on May 18. There was a good and representative attendance; the president (Mr. Thomas Marns) was accompanied at the table by the treasurer (Mr. E. T. Neathercoat), the vice-president (Mr. Guthrie), the secretary (Mr. H. N. Linstead), the resident secretary in Scotland (Dr. Joseph Tait) and the Society's solicitor, Mr. W. H. Quarrell. In addition to most of the members of the Council, there were also present Mr. F. A. Lawman, Mr. H. Finnimore, Mr. H. Deane, Mr. H. Bayles, Mr. W. Chalmers, Mr. H. Humphreys Jones, Mr. G. Tocher, Mr. A. Mortimer, Mr. A. Francis, Mr. J. P. Gilmour, Dr. Coutts and Mrs. Herbert Skinner.

### The President's Address

THE PRESIDENT, in delivering his address to the members said: It gives me great pleasure to welcome this morning a representative number of members of the Society at our ninety-seventh annual meeting. It is customary on these occasions for the annual report and statement of accounts to be taken as read. Is it your wish that this procedure shall be followed to-day? (Agreed.)

The report is somewhat more detailed than on some occasions, and therefore it is not necessary for me in moving the adoption of the report and the statement of accounts to elaborate the information which is already in front of you. There are, nevertheless, certain sections of the activities of your Council which it is proper that I should refer to in some detail. The year 1937 was a great year in the domestic history of this country, and it is a source of pride to the Society that during the year of his coronation His Majesty the King saw fit to become our Patron.

### MEMBERSHIP

Once again the figures for membership show an increase, reaching a new high level of 23,536. This increase, while in itself a source of satisfaction, emphasises a fact of which most of you must by now have become conscious—that the progressive increase in the number of pharmacists is increasing to an unprecedented extent competition in retail pharmacy. The available remedy is to secure that only a limited number of students, and those the best, shall enter pharmacy each year. It is too soon for the results of the higher entrance examination to be reflected in the membership figures, but it cannot be long before the increases of recent years are checked. A falling off in the registrations of apprentices has already begun.

### FINANCE

The paragraphs in the report dealing with finance are comparatively short. Finance is, however, during the next thirty years bound to play a dominant part in the shaping of the Society's policy in many directions. The Society is now committed to the erection of a new building, and here I must call your attention to the difficulties that originate from the fact that during our long history of nearly a hundred years we have been able to save only some £175,000, the greater part of which has been accumulated in the last fifteen years. The termination of the leases of this building has been a liability which the Society has always known that it would have to face. It is to be regretted that no more adequate provision was considered to be necessary than a lease redemption policy worth £25,000 at maturity. I shall revert to the question of finance when I speak about the new headquarters in a few moments. I must, however, here include a word of thanks on behalf of the Society as a whole to our treasurer, who has placed his wide experience unreservedly at our disposal and to whom we are all indebted for his skilled supervision of our finances.

### INSPECTION OF PHARMACIES

The paragraph headed "Legal" contains a most satisfactory indication of the value of the system of inspection brought into being by the Act of 1933. It records that our inspectors report that the suggestions made by them on the

occasion of their first visits have been in the majority of cases readily adopted by members and that there has been in general a very marked improvement upon the conditions found by them a year ago. This is satisfactory both from the public point of view and from the point of view of everyone practising pharmacy. It means that the general standard is being brought to the level of the standard maintained by the best practitioners. I am glad to be able to tell members that there has been a substantial amount of evidence both from letters from individual members and from resolutions passed at branch meetings that the inspectors have undertaken their work with discretion and tact, and that their advice has been gladly sought and acted upon by those whom they have visited. It is in this spirit that the Council desire that the duty of inspection placed upon the Society shall be carried out.

### INFRINGEMENTS OF THE 1933 ACT

Very few serious cases of infringement of the Act have been brought to the Council's notice during the year. Many cases have been met by a warning, although a certain number of prosecutions of members and unqualified traders have been necessary. Under the old Acts a falling off of offences by unqualified traders followed the more thorough methods of administration adopted by the Society after 1924. This experience is being repeated under the new Act, and it is already clear that the machinery of enforcement (in so far as it rests with the Society) is securing a very large measure of compliance with the law by the great majority of such traders. This is as it should be, but it is only by the unceasing vigilance of the Society that this state of affairs has been secured and can be maintained.

The Report records the first High Court decision under the 1933 Act—the Hygienic Stores case. In this case it was decided that the sale of comparatively small quantities of drugs and medicines at a drug store, the owner of which was conducting a chemist's business in other premises, was an offence under the Act. The implications of this decision are wide, and its full effect is being carefully investigated by the Council at the present time.

### MEDICINE STAMP DUTY

In my statement a year ago, I made reference to the Medicine Stamp Acts, and to the fact that the Chancellor had not seen fit in his 1937 Budget to implement the recommendations of the Select Committee on Medicine Stamp Duties. As you know, this course has been followed by his successor this year. In his Budget Statement Sir John Simon said:—"I must also mention the Medicine Stamp Duties. A Committee of this House which considered this subject made a valuable report last year, but it has not yet been possible to arrive at conclusions on all the complex issues involved. It is my intention that a decision shall be reached before next year's Finance Bill." Such a statement leaves the matter at the moment just where it was a year ago. We have yet to see whether his decision will be to leave things as they are, to repeal the duties altogether, or to amend the Acts. If he adopts either of the last two courses, we are ready to take such parliamentary action as may be necessary. More than that in the circumstances you will not expect me to say.

### THE SOCIETY'S BRANCHES

I want now to pass over the paragraph dealing with the College, Library and Museum, to which I will return later when I refer to the Society's House, and take you to the paragraphs under the heading "Organisation." I want first to express my personal gratification at the shape which the branch representatives' meeting is now taking. We have experimented with the form of this meeting, and there is no doubt that the Liverpool Conference provided one of the most satisfactory that has hitherto been held. Once branches become familiar with the machinery for bringing resolutions before the representatives' meeting we shall obtain even greater benefit from it, and it will rapidly become a valuable



channel of negotiation between the branches and the Council, and a real force for debating and deciding upon important questions of policy. I must in this connection make special mention of the general arrangements for the Liverpool Conference and express once again the gratitude of the many members who were present, to their hosts for their hospitality, and for all the labour which went to make the Conference so memorable.

#### AIR-RAID PRECAUTIONS

Under the heading "Public Services," you will find a reference to a matter much in the public eye at the moment—air-raid precautions. The Society has been in close touch with the Air-Raid Precautions Department of the Home Office since it was first set up, and in the early days substantial progress was made in working out a scheme for the participation of pharmacists in Air-Raid Precautions services. In recent months the work of the department has snowballed to such an extent that the aspect of it in which we are most interested has been relegated to the background. This is regrettable, but inevitable. It is easy to criticise delays such as have occurred but if the complicated nature of the problem and the immense volume of work is visualised the delay in dealing with our aspect of the problem can at least be understood. Looking at the whole national A.R.P. scheme, it is far better that slow progress should be made along carefully thought out lines than that in an endeavour to produce a complete scheme in the minimum of time, a heavy structure should not be put on insecure foundations. In the report we tell you something of the history of the Society's negotiations, and I hope that within a few weeks, if possible with the approval of the Home Office, we shall be able to issue to our branches a comprehensive memorandum on the various ways in which pharmacists can participate in A.R.P. work.

#### THE SOCIETY'S HOUSE

Successive presidents for the last ten years have deplored the conditions under which our work is carried on in the present building, and have reported the progress which we are making with our rebuilding scheme. To-day I am able to tell you that we have reached the stage of inviting tenders. Until the tenders are received it is to some extent guess-work to say what the building is going to cost, but my own criterion for determining the amount that should be spent is whether the building can be put up and maintained without our having to increase the contribution we receive from our members. If we are able to finance the building within our present income, supplemented by donations to the Building Fund, this is ample justification for the scheme, judged in its financial aspect.

Finance must dominate a project such as this, but finance is not the last word. This building will house the activities of pharmacy; but also it must represent the aspirations of our craft. It will be built with bricks and mortar, but it must have behind it enthusiasm. It is probably fair to say that the attitude of many members of the Society towards this problem is to recognise that the present building must of necessity be badly out of date and to be anxious that the new building shall not require him to pay an increased subscription.

I want a firmer foundation than that for the erection of this new house. I want members to take an active interest in its progress and a pride in the completed building. I want them to realise that it is their house, for their use. I want them to come and see our present building when they have the opportunity; to look at our site in Brunswick Square, and to refresh their minds by reference to the plans and illustrations that have already been published. I want this project to be carried through from now on on a wave of enthusiasm. I have personally taken a deep interest in the new house, and the Council have done me the honour of asking me to accept the chairmanship of a committee to consider ways and means of supplementing the present financial resources of the Society in so far as the building is concerned. This is not the time to develop this particular subject further, but I hope before long to be able to report in detail the proposed activities of the Committee.

#### HONORARY MEMBERS

The paragraph headed "Honorary Members" not only gives me an opportunity of expressing our pleasure at the election of Dr. Coward as an honorary member of the Society but also of welcoming two new honorary members in the persons of Sir

Walter Langdon-Brown and Professor Dilling, who have been good enough to place their experience and knowledge at the Society's disposal as nominees of the Privy Council on our Council. We welcome them cordially. Our only regret is that their appointment means the resignation of Sir Humphry Rolleston and Professor Gunn, who have served previously in that office, and to whose active interest in our work we are deeply indebted. To Sir Malcolm Delevigne in particular we are grateful for his willingness to act for a further period as one of the Government representatives.

A distinguished honorary member whose resignation from the staff of the Society during the year we have to record is that of our friend and late colleague, Professor J. H. Burn, after ten years of most enthusiastic service. We rejoice in the opportunity for the wider utilisation of his knowledge which his appointment as Professor of Pharmacology of Oxford gives him. We look back with gratitude upon his services to us, and we wish him a successful and happy career in his new surroundings. I think Professor Burn would be the first to admit that he came to us as a pharmacologist and left us as an enthusiastic pharmacist. We welcome his successor, Professor J. H. Gaddum, who comes to us with a distinguished record of research work in pharmacology, and we are gratified that one of the results of the reorganisation has been that we have once more a pharmaceutical Dean in the person of Mr. H. Berry, who is now bringing to our own College the enthusiasm and ability which characterised his headship of the school in Birmingham.

#### PUBLICITY FOR PHARMACY

To-day we are living in an age when the old truth about the folly of hiding one's light under a bushel is realised by all; and we must recognise that the Society itself, no less than the individual member in his own pharmacy, must follow the advice implied by that truth if the value of their services is to be adequately brought home to the public. The Society has noticed with satisfaction that pharmaceutical matters have received more attention in the public Press during the past year. In the matter of publicity for local pharmacists we have been able to place at the disposal of branches a scheme whereby they can with our help engage in co-operative advertising schemes. It is significant that those branches which have used it have already taken more space.

Two things remain for me to do. The first is to call your attention to the long list of familiar names which we regretfully record in the last paragraph of the report. I do not think that I remember a year in which so many of those closely connected with this building have passed away. We have lost a past-president in Frank Gladstone Hines, a vice-president in Harry Simmons, and members of Council in the persons of H. M. Lloyd and C. E. A. Goode. When you find in the list such names as William Bennett, J. O. Braithwaite, Alfred Higgs, E. S. Waring and Arthur Young, you will regretfully agree with me that 1937 has taken a heavy toll of our distinguished members.

The president then added a personal tribute to the late Mr. T. E. Lescher.

My last duty is to say a few words of appreciation of the work of the staff.

I now move that the annual report and statement of accounts be adopted.

The vice-president formally seconded the motion.

#### Discussion

MR. YATES (Plymouth) asked at the outset who was responsible for the policy of the "Journal," and having been informed by the President that it was conducted by the Journal Committee whose recommendations were ratified by the full Council, explained that Plymouth had a grievance. They felt that they had received scant consideration. He understood that it was the policy in the election of the Council that members should get all the information they could about the candidates and by a lucky accident they had found out that one of the chosen candidates was directly concerned with a grocery business. In view of their experience, some of their members had refrained from voting at all. But when they sent letters to the "Journal" they were not published, and his branch did not think that was fair. In the present election, letters had appeared supporting members of the Council and, with one exception, letters which did not support them had been banned from the "Journal." That was mainly



the cause of the grievance from which Plymouth was suffering.

MR. BRACKENBURY (Middlesbrough) congratulated the Council on the report, observing that one of the things which most interested him in it was the reference to publicity. But much more remained to be done, and in this connexion he cited the example of the way in which the proposed public medical service had been brought to the notice of the public. He would like a comprehensive programme to be drawn up covering all the pharmaceutical services, such as National Health Insurance, public medical services, hospitals, clinics and private dispensing, and whether members liked it or not, he believed there should be a 24-hour service. Referring to an ancient document which pointed out that in the days of old objection was taken to the sale of medicines in markets and off street stalls, he expressed the hope that the Council would have the courage to tackle the evil which was still prevalent.

MR. J. MILNER (Greenwich) referred to the Medicine Stamp Act and said the Society had been let off this year, and though he was rather doubtful he hoped something good would come out of it for pharmacy. At the same time, there was something wrong, for pharmacists had to pass an examination, pay their subscription and, now, a registration fee, and they had also to pay 5s. for a patent medicine licence. Yet there were probably thousands of shops which took out patent medicine licences. He suggested that chemists should be let off free. With regard to the Sunday Trading Act, he was dubious whether it had been for the good of chemists. He wondered whether the Council made it their business to see that the Act was properly carried out. The matter was of great interest to chemists in large towns, and he believed there must be hundreds of shops which were selling medicines. Mr. Milner approved of the attention the Council was giving to publicity and said the Huddersfield scheme was very good. He hoped something would be done for the branches. He thought it was high time something was done to restrict the sale of certain drugs and preparations to pharmacists.

MR. F. W. J. HOOPER (London, N.) said that members had been talking at the meeting for about 25 minutes, and most of the time they had dealt with trade, which was outside the scope of the Society. He suggested that the next time the accounts were issued it would be an advantage, and more businesslike and democratic, if the number of the staff could be given, together with particulars of their salaries, and also if the statement of accounts could be accompanied by a budget statement for the following year. In times past the pharmacist was considered a man of ability, who could deal quickly and accurately with matters coming within his province. But men of that type were not being produced now, and the present syllabus had too much the appearance of a patchwork quilt. He did not know of any other profession in which there was the same slackness, and he suggested that the inspection and control which were applied to schools of pharmacy should be extended to other places where practical instruction in pharmacy was given. Emphasising the large receipts and expenditure with which the Council had to deal, he expressed the view that they required on the Council at least one person who had been used to dealing with finance on a large scale. Representatives of every branch of knowledge were needed on the Council.

MR. TIMS (Cobham) said that most of the remarks made by several of the speakers should have been addressed to the National Pharmaceutical Union, and had nothing to do with the Society as such. He thought the names of the officers and chief officials of the Society should appear on the front of the annual report. Another matter to which he called attention was that while the Society represented people who, whether in business on their own account or assistants, were all qualified, the unqualified man was better off.

MR. TRAYNER (Brentwood) asked that when the Council had had time to digest the case of the Hygienic Stores they should let the members know the result of their deliberations.

### The President's Reply

THE PRESIDENT, replying to the discussion, referred to Mr. Yates's reference to the "Journal," pointing out that it was the duty of the editor to use his discretion as to what was published. He (the speaker) had no evidence that the editor of the "Journal" had ever differentiated between candidates whether actually members of Council or seeking election. Everyone received fair treatment. He did not think he was

spared anything for he had been slated in the official "Journal" and had known what it was to "get it in the neck." He had no influence with it at all, but if Mr. Yates could give him any information regarding any difference in the treatment of candidates he would take the matter up with the editor. With regard to the reference to the small attendance at meetings it frequently happened that many were called, but few turned up. He was glad to note that Mr. Brackenbury had come all the way from Middlesbrough, and Mr. Yates from Plymouth. The Council were only beginning the publicity work to which Mr. Brackenbury had referred, and they hoped to get the help of all the branches throughout the country to develop it in the right way. Touching on the B.M.A. scheme for a public medical service, the President said he hoped the Committee of Inquiry would cover the ground to some extent. The Council had always been vigilant under the Pharmacy Acts and took advantage of every opportunity to safeguard the interests of members, but it must not be forgotten that the distributing trade in this country which affected pharmacists was undergoing changes. Mr. Milner, whom he (the President) was glad to welcome, had made the suggestion that the chemist should not be called upon to pay for the patent medicines licence, and it was a good one. But they must wait and see what happened. In the matter of publicity the local chemist could do a good deal for himself, and if he only played his cards correctly he could get a lot of free publicity in his local papers. With regard to meetings, there were lots of people who were ready to take everything they could get but would do nothing in return, but that applied to dentists, doctors, and also to trade unions, and all complained of the present-day apathy towards meetings. Mr. Hooper had deplored that the accounts did not include the staff salaries, and there was real difficulty regarding the budget, which could not be prepared in time for the annual meeting. Mr. Hooper had also said that they were now turning out fewer practical pharmacists than formerly. Well, perhaps they were. The old apprenticeship system was passing very rapidly, and he was one of those who thought that nothing could replace a sound apprenticeship. But under the circumstances he thought the policy of the Society was sound, namely, giving a good all-round training. The question of the approval of shops for apprentices was now under consideration by the Education Committee. Touching on the desirability of having a representative on the Council with experience of finance, the President said that the need for wider representation was agreed by all. He thought all phases of pharmacy should be represented, and that they should endeavour to attract the man with sufficient time at his disposal as well as experience. In reply to Mr. Tims the President said that the suggestion that the names of the secretary and officers should be printed on the report, if adopted, meant more publicity. He believed and hoped that the building operations in Brunswick Square, and the erection of a building not only equal to their present needs, but for the future, could be carried out without any increase in fees. The founders of the Society had secured a building nearly a hundred years ago that was much bigger than they needed at the time, and the present members of the Council wanted to provide headquarters which would last at least as long. He hoped they would get sufficient donations for the new building so that they could make it a worthy centre of British pharmacy in the heart of the British Empire. The Council were considering how they could help pharmaceutical employees who were members of the Society. With reference to the Hygienic Stores case they had to go very carefully, but they were giving the matter very serious consideration.

The VICE-PRESIDENT seconded the adoption of the report.

### SCRUTINEERS APPOINTED

Several scrutineers were appointed to count the votes in the election of councillors.

### AUDITORS

The following were elected auditors: Messrs. C. A. Hill, J. S. Hills, E. J. Millard, G. E. Pearson, and E. A. Umney.

MR. J. STUART HILLS assured the meeting that the accounting and book-keeping were done with thought and discretion, care and accuracy. So far as he and his colleagues were concerned, it was a pleasure for them to render the services associated with their office, and provided them with a welcome opportunity of expressing their duty to their Society.

The meeting was then adjourned for the purpose of counting the votes.



### Council Election Result

THE PRESIDENT took the chair at the adjourned meeting at 6.30 p.m. He announced that the number of voting papers issued was 22,986, of which 9,419 were returned, including 79 disallowed and 33 late, leaving 9,307 valid papers. The voting was as follows:—

Melhuish, Andrew Ralph	...	...	6,247
Franklin, John Henry	...	...	6,116
Parry, Lewis Moreton	...	...	5,833
Young, James Clements	...	...	5,425
Mawer, George Robert Knox	...	...	5,424
Rowsell, Philip Foale	...	...	5,198
Wells, Frederick George	...	...	4,934

Wilson, Frank Clay	...	...	4,768
Hodgson, Herbert	...	...	3,963
Barrs, Percy	...	...	3,283
Clarke, Frank Ewart Stanley	...	...	3,212
Laws, John Joseph	...	...	2,472

THE PRESIDENT declared the first seven elected, and read the names of the members of the Council as now constituted. He

moved a vote of thanks to the scrutineers, to which Mr. Milner, who had acted as chairman of the scrutineers, briefly replied.

Mr. H. W. WALLIS proposed a vote of thanks to the president for his services in the chair and for his address.

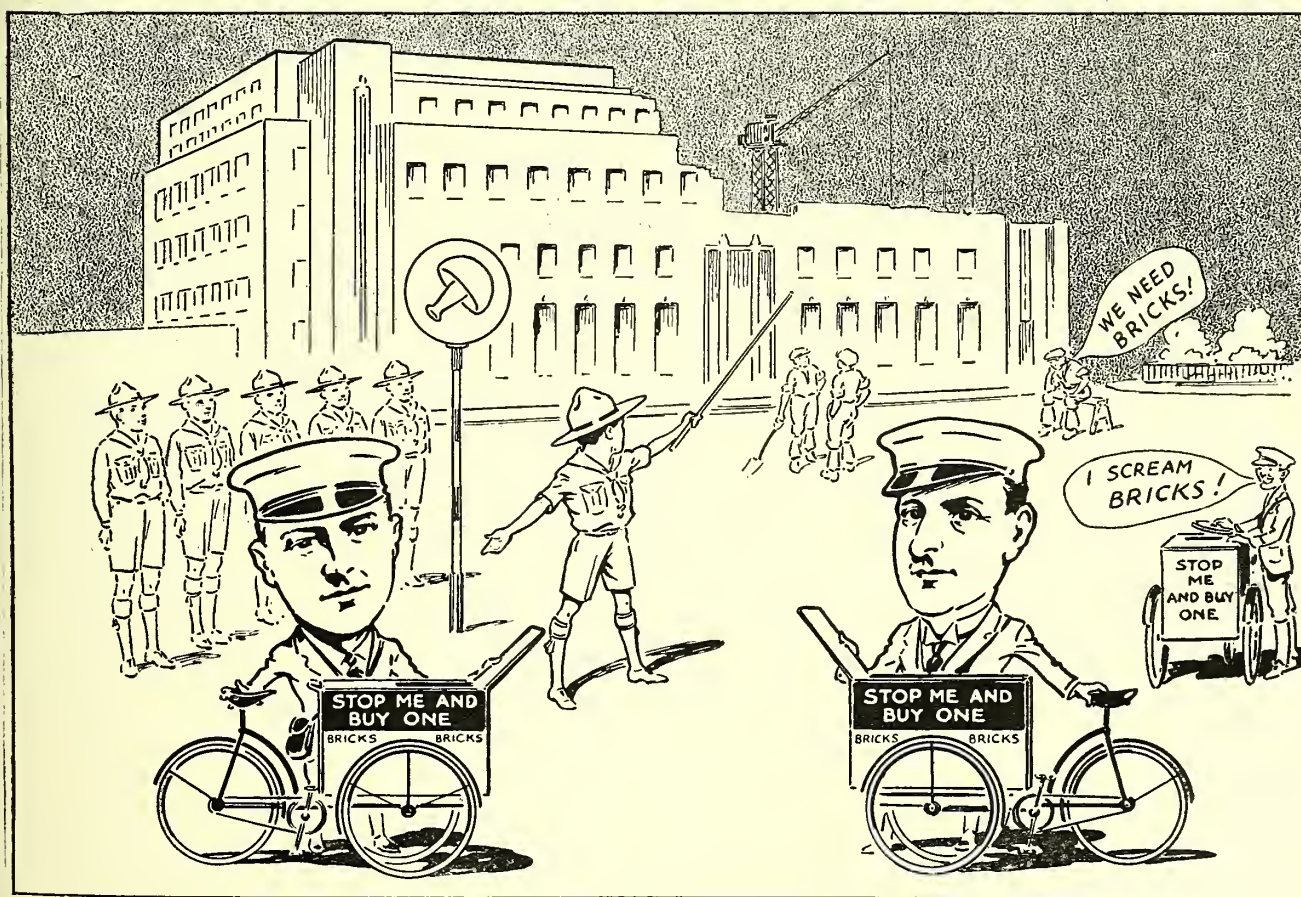
Mr. F. G. WELLS seconded, and THE PRESIDENT replied.

### Council Meeting

A special meeting of the Council was held on May 18, the president in the chair. Four persons were elected as student-associates, and Mr. Alfred George Owen Dixon, formerly of Victoria, was registered in accordance with the provisions of Section 4 (b) of the Pharmacy and Poisons Act, 1908. The names of eight persons were restored to the Registers of Pharmaceutical Chemists and Chemists and Druggists.

Authority was given for the names of 555 persons who had not paid the retention fee for 1938 to be removed from the Registers. The secretary reported that the list included the names of 114 persons who had notified their intention to resign. Authority was also given for the removal of the addresses of 338 premises on which the retention fee for the year 1938 had not been paid.

The secretary reported that by virtue of the death of Mr. T. E. Lescher there were only four nominations for the five vacancies for honorary auditors of the Society, and in accordance with Section 5 (5) of the by-laws Mr. George Edward Pearson was nominated to fill the remaining vacancy.



(With acknowledgments to the slogan of T. Wall & Sons, Ltd.)

Patrol, halt! Do your good deed for today and tomorrow and tomorrow . . .

(The actual cost of the new building of the Pharmaceutical Society of Great Britain in Brunswick Square, London, is not yet known. Tenders are being invited (see p. 585).)



# Pharmaceutical Society of Ireland

## Council Meeting

THE monthly meeting of the Council of the Pharmaceutical Society of Ireland was held on May 10 at 67 Lower Mount Street, Dublin, Mr. P. C. Cahill, the vice-president, in the chair. Other members of the Council present were Messrs. F. J. Fitzpatrick, C. Cremen, D. W. P. Boyd, J. Duggan, P. Brooke-Kelly, J. Gleeson, P. J. Fielding, J. A. O'Rourke, M. J. Parkes, J. V. McKeever, T. C. Scott, Sir Thomas Robinson, Dr. J. A. Mitchell and Miss F. M. Flood.

THE VICE-PRESIDENT said he wished to refer to the death of Mr. T. E. Lescher, a distinguished member of their profession on the other side. Mr. Lescher's death was a big loss to pharmacy not only in England but also on this side of the Channel. He was sure it was the wish of the Council that they should express their condolence with the late Mr. Lescher's relatives, and that this expression of condolence be conveyed by the registrar. Accordingly, he moved "That the Council of the Pharmaceutical Society of Ireland expresses its deepest sympathy with the relatives of the late Mr. T. E. Lescher."

MR. BROOKE-KELLY seconded the motion, which was passed in silence, all members of the Council standing.

### APOLOGIES FOR ABSENCE

Apologies for inability to attend were received on behalf of the president (Mr. B. P. Hickey), Mr. J. K. Whelehan, Mr. J. F. Costello and Mr. M. J. Kieran.

### REGISTRATION ITEMS

Mr. T. Kelleher and Miss Norah Ahern wrote submitting Matriculation Certificates and desiring Preliminary Registration. Both applications were granted.

The following changes of address were notified:—

Mr. R. Daly, M.P.S.I., from 129 North Main Street, Youghal, co. Cork, to Altona, College Road, Cork; Mr. C. J. Staunton, M.P.S.I., from 60 Princess Road, Bournemouth, Hants, to 81 The Rise, Mount Merrion, Blackrock, Dublin; Mr. T. Farrar, L.P.S.I., from Marsh Mill, Drogheda, co. Louth, to 1 West Street, Drogheda, co. Louth; Mr. G. W. Irwin, L.P.S.I., from 11-13 Little Ship Street, Dublin, to 44-46 North Lotts, Dublin; Mr. T. Veale, L.P.S.I., from Erin, Richmond Road, Mowbray, Cape Province, S.A., to The Dispensary, Mental Hospital, Bloemfontein, South Africa.

Dr. John Hannan wrote submitting L.A.H. Certificate and desiring registration as a Pharmaceutical Chemist. The application was granted.

### COMPOUNDERS IN INSTITUTIONS

The following letter was read from Messrs. J. J. Sewell and W. G. Cunningham, secretaries of the Irish Dispensary Compounders' Association:—"Dear Sir,—We shall be much obliged if you will kindly convey to your Council the desire of this Association to discuss with them the compounding of medicines in hospitals and asylums by medical officers. We are confident that your Council will agree that pharmacists, by virtue of their special training, are the best fitted to undertake the compounding of medicines, and we feel that the recent action of the Local Government Board in refusing to sanction the appointment of a compounder to Edenburn Sanatorium, co. Kerry (this appointment was made by the local Board of Health at the request of the doctor to the sanatorium), was contrary to the interests of pharmacists. As this Association intends taking this matter up with the Irish Medical Union and later with the Local Government Board, we shall deem it a great favour if the Council of the Pharmaceutical Society of Ireland will receive a delegation from the Association to discuss the whole problem."

THE REGISTRAR (Mr. J. J. Kerr): The president instructed me to inform the Association that the Council would receive a deputation at 3.30 o'clock to-day.

SIR THOMAS ROBINSON: This is a case in which, I am sure, we all sympathise with the Association. What was the Local Government Board's attitude?

THE REGISTRAR: The Local Government Board said the doctor should do all the dispensing himself.

MR. FITZPATRICK: There is a worse case even still than this institution in Kerry. What about Grangegorman Asylum, where you have 4,000 to 5,000 patients and there is no pharmaceutical chemist compounder? We should receive the deputation from the Association and try to help them in every way we can.

Subsequently the following were received by the Council as a deputation from the Irish Dispensary Compounders' Association: Dr. Michael O'Donnell, Messrs. D. J. Nugent, A. F. Collins and W. G. Cunningham.

THE VICE-PRESIDENT said he must apologise for the absence of the president, but Mr. Hickey asked him to assure them that he was deeply interested in their problem.

DR. O'DONNELL then made the following statement to the Council: "The Committee of the Irish Dispensary Compounders' Association have decided to make representations to the Minister for Local Government and the Medical Union re his (the Minister's) failure to sanction the appointment of a compounder of medicines to Edenburn Sanatorium, co. Kerry, despite the recommendations of the local Board of Health. The Minister's reply was as follows: 'It was pointed out that the medicines used in an institution of this kind are either proprietary preparations, which do not require compounding, or stock medicines, which can be made up in bulk at intervals, or be purchased from contractors already made up,' and he considered that the assistant M.O.H. should do the work. Now, as this matter of doctors dispensing is, in the opinion of this Association, of primary importance to pharmacists in general, our Committee are anxious to learn, before taking any action, the views of the authoritative body controlling pharmacy in Eire, namely you gentlemen, in this important matter. Our Association is of opinion that licentiates of the Pharmaceutical Society of Ireland, due to their special training, are best fitted and the most suitable candidates for this particular work, the training which a doctor receives in dispensing being only a cursory one not sufficiently comprehensive for general compounding, such work being reserved for pharmacists. Furthermore, it seems strange that in the case of city dispensaries and several county ones, the Minister apparently considers that a pharmacist is necessary and is the best qualified for such work, while in other cases he considers that this work should be carried out by medical officers. Anent this question of dispensing, this Association is informed that several institutions throughout the country do not employ a compounder at all, and here again we would be grateful for the Council's opinion and guidance on the legal aspect, etc., of these conditions."

DR. O'DONNELL, continuing, said his Association had been considering this matter for a long time, and were anxious to have the present position remedied. Many institutions throughout the country had no compounders. Pharmacy was at a low ebb at the present time, and there were a lot of unemployed who could fill posts of this kind. The members of the Association were not concerned with themselves, but of those who came after them.

THE VICE-PRESIDENT: I think we all agree with your views on this matter, but how far we can help you to achieve your aim is another matter.

DR. O'DONNELL: At a time when qualified men are without posts and the hospitals are being subsidised by the Hospitals Trust, compounders should be employed.

MR. NUGENT: Might I draw attention to Section 30 of the Pharmacy Act. It's vague, I will admit.

THE VICE-PRESIDENT: Have you made any representations to the bodies concerned in the matter?

MR. NUGENT: There is only one body so far—the co. Kerry case.

DR. O'DONNELL: We are not concerned about ourselves, but those men walking about should get a chance. There should be a qualified man in each institution, if not two or three in the large institutions. What we want to know is if you could help us in any way.

THE VICE-PRESIDENT: We cannot do very much here to-day. We will consider your statement, and any suggestions you put forward, at our next Committee meetings.



DR. O'DONNELL: We are glad to get your consideration and sympathy. Something should be done; there are so many idle men walking around. In the whole twenty-six counties only forty-six qualified compounders are employed, and there are many places where there are no men employed at all. We know there is no neglect on the part of the Society, but we felt that the position should be pointed out to you. I am sure you will give us every help.

MR. COLLINS suggested that they should have a ruling from the Society that a pharmacist was the proper person to carry on compounding in public institutions and hospitals. While a doctor might do private compounding, they felt it was not the intention of the Pharmacy Act to have doctors doing routine compounding in institutions. The Act reserved that for the pharmacist. Perhaps they could get an expression of opinion on this aspect from the Society.

THE VICE-PRESIDENT: We should have to get the views of our law adviser.

MR. NUGENT: This particular case we have before us is a very strong one to work on. There were 110 patients in the Kerry sanatorium he referred to.

SIR THOMAS ROBINSON said he did not think it was a very good case. In Grangegorman, with its large number of patients, they would have a tremendous case. He for one would back the Association up in this matter.

MR. CUNNINGHAM said in the Kerry case the doctor asked for a compounder to be appointed.

THE VICE-PRESIDENT read portion of the letter written by the M.O.H. in Kerry in which he stated that, owing to the type of patient admitted to the sanatorium, and the amount of medical treatment necessary, the doctor could not be responsible for compounding.

MR. NUGENT: The Board of Health agreed to the appointment.

THE VICE-PRESIDENT: We can only consider the matter in the light of the facts you have brought before us, and any you may bring in the future. It is scarcely necessary to assure your Association that we feel it our duty to see that any worth while compounding that is to be done in this country should be done by our graduates.

DR. O'DONNELL: We would like to hear Mr. Fitzpatrick's views.

MR. FITZPATRICK: My views are exactly as Mr. Cahill has expressed. Our practice is not to have a discussion when a deputation is received. That is why I have not spoken.

DR. O'DONNELL: We are very grateful for the sympathetic

way in which you received us. We are only sorry that the vice-president was not elected to the Senate, and we hope he will be yet. We must also thank the registrar for his assistance and the way he received us on all occasions. He is one of the most capable of men.

The deputation then withdrew and the Council deferred further consideration of the matter to a future date.

#### OTHER MATTERS

The reports of the House, Schools and Law Committees were submitted and approved.

On consideration of the Law Committee's report the Council again directed the attention of pharmacists to the fact that Collis Browne's chlorodyne is a Part I poison. They also directed attention to Section 5 of the Poisons and Pharmacy Act, 1908, which requires that liquid preparations of ammonia be only sold in poison bottles.

The examiners to the recent licence examination reported that twenty-seven candidates entered for the examination, of which number two withdrew and twelve passed, one with honours. The examiners to the assistants' examination reported that fifty-two candidates entered for the examination, one withdrew and twenty-four passed. Three candidates entered for the Registered Druggist examination, none of whom passed.

THE REGISTRAR reported on the removal of the following under Section 25:—*Pharmaceutical chemists*: Messrs. J. H. Cooke, R. Hall, W. Jordan, R. Mulligan, J. F. McAlister, W. W. McDonald, J. R. Stevenson, C. A. J. Troughton. *Registered Druggists*: Misses B. E. Newton, M. Walker, Messrs. T. H. L. Adderley, P. J. Barre, E. Dwyer, T. W. Gibson, T. Hanna, W. M. Honeyman, W. J. Jenkins, P. J. Mallon, P. A. Martin, W. Martin, T. J. Moffat, F. J. Molyneux, A. Moore, M. McCabe, J. F. McKee, W. C. H. McKinty, W. R. P. McNeight, M. O'Brien, J. M. O'Donnell, J. D. O'Reilly, T. C. Sandford, W. G. Smyth, P. J. Stafford, R. M. Watson, T. V. L. Watson, E. Wheeler and R. E. White.

THE REGISTRAR reported on the deaths of J. J. L. Robinson, M.P.S.I., and G. A. Paterson, L.P.S.I.

Miss I. Keaney and Mr. J. W. Chambers were elected members of the Society, and Mr. P. J. Sweeney, 26 Ellis Quay, Dublin, was nominated for membership.

The Pharmaceutical Licences of the following were signed and sealed: Misses M. M. Duffy, S. G. Knox and B. O'Keefe, Messrs. P. J. Cahill, G. Chambers, J. Draffin, M. J. Dunne, P. J. Gallagher, D. G. O'Leary and D. F. O'Riordan.

## Royal Society Conversazione

The annual conversazione of the Royal Society was held at Burlington House, London, W.1, on May 18, when many exhibits representing the advances made in science were demonstrated. The following are some of the principal exhibits. A colour measurement instrument featured was designed in the course of an investigation of the colours of soils. It represented an attempt to produce a colorimeter that is simple in construction, easy to adjust and read. A neutral background of controllable brightness is viewed through coloured glasses of a Lovibond Tintometer, so selected from two of the three series that a match is obtained with a coloured object. Specimens to illustrate the distribution of prehensile tails among mammals and the varying degree in which prehensibility is developed in different groups were shown. Such tails are found in the orders *Marsupialia*, *Edentata*, *Rodentia*, *Carnivora* and *Primates*. Factors governing migration and accumulation of petroleum were illustrated by a display which included a number of experiments on the movement of oil and water through sands of varying grade composition and showed the function of the coarse-fine interface in distaining the oil from water and segregating it in the coarser streaks. The demonstration of virus bodies within the living cells of the chorio-allantoic membrane by oblique incident illumination was particularly interesting. The infected membrane is brought into immersion contact with the under surface of a coverslip closing the opening in the shell of the chick or duck egg. The normal relations of the membrane to the embryo are not disturbed, and thus observations may

be carried out for long periods by the aid of oblique incident illumination. Elementary bodies of various virus diseases in their relation to the cell are demonstrated. Abnormal spindles in pollen mother-cells and their consequences in *Rubus*, *Pyrus* and *Lolium* were shown on photographs. Split spindles in these genera result in the formation of pollen grains with less than the normal number of chromosomes. Genetic and cytological analysis suggests that seedlings and somatic mutants with sharply changed chromosome numbers can arise in this way, e.g., diploids from hexaploids and pentaploids from triploids. The manufacture and use as a general anaesthetic of cyclopropane was explained by apparatus and diagrams. The apparatus showed the preparation of cyclopropane in the laboratory, which is effected by treating trimethylene bromide in alcoholic solution with zinc. Large scale manufacture corresponds very closely with the process illustrated by the laboratory apparatus. For administration as a general anaesthetic the gas is mixed with oxygen, the "closed circuit" system being used. Administration apparatus was shown and photographs illustrated its use in hospital. Three new methods for sampling industrial dusts were demonstrated. These are:—(1) *Volatile Solid Filters*, of naphthalene and anthracene; to collect dust for weighing and microscopic examination. (2) *Soluble Solid Filters*, of salicylic acid; to collect dust for weighing, and for chemical analysis. (3) *Labyrinths*, consisting of an assembly of baffles in a conduit through which the dusty air is drawn: to collect relatively large samples for chemical analysis, solubility determinations and physiological experiments.



## Trade Notes

**COOPER HEALTH ROUTINE FOR DOGS.**—Elsewhere in this issue Cooper, McDougall & Robertson, Ltd., Berkhamsted, advertise the Cooper health routine for dogs. Three products are concerned in this: Pulvex vermin powder, in two sizes of sprinkler tins; Cooper's vitamin ration, in three sizes; and Cooper's liquid worm remedy, in two sizes. Generous trade terms are offered.

**POMPEIAN PRODUCTS.**—Illustrated on this page is a selection of the new range of lipsticks and rouges briefly referred to in a recent issue. The range comprises four shades of lipstick: Hollywood, Blondette, Geranium and Brunetta. The rouge is



made in three shades: Hollywood, Blondette and Blush Rose. Care has been taken in evolving complementary shades of rouge and lipstick, so that harmony make-up is obtained when the appropriate shades are used together. These new sizes at popular prices are attractively presented.

**PRODUCTS FROM THE FAR EAST.**—Seymour-Sheldon Co., Ltd., 2 Gresham Street, London, E.C.2, invite inquiries for agar-agar, peppermint oil and menthol.

**AURUM AMBROSIMUM** is the name applied to a substance used in the treatment of rheumatism. It is manufactured by Aurum Ambrosium, Ltd., 98 Church Street, Blackpool, who are advertising in this issue.

**PICTORIAL PLAN OF GLASGOW.**—We have received from John Bartholomew & Son, Ltd., Duncan Street, Edinburgh 9, a pictorial plan of Glasgow showing the roads and railways serving the Empire Exhibition of 1938. This is an entirely new plan of the city on the scale of 5½ in. to the mile.

**SCIENTIFIC SLIMMING.**—Minus is the term applied to a new product for slimming sponsored by Ebe Products, Ltd., 11 Diana Place, London, N.W.1. It takes the form of a bath, and no dieting, drugs or exercises of any sort are required. Full details are given in our advertisement pages.

**SUN PRODUCTS.**—Warrick Bros., Ltd., Nile Street, London, N., direct attention to their sun products which include a suntan lotion, sunburn oil, suntan cream, etc. Show material is available on application, and further details are given elsewhere in this issue.

**CAMELIA SANITARY TOWELS.**—Chemists are reminded that Camelia price vouchers which are issued on unit wraps only increase the regular profit on these articles made by Chappell, Allen & Co., Ltd., 14 Fore Street, London, E.C.2. Further details appear elsewhere in this issue.

**OVERALL GARMENTS FOR CHEMISTS.**—A new catalogue of protective clothing has been issued by Gardiner & Co., Ltd., 1, 3 and 5 Commercial Road, London, E.1. This house specialises in overalls and clothing for all professions and trades, and a copy of this new illustrated catalogue may be obtained on application.

**SPEEKO ELECTRIC SHAVER.**—Thompson & Capper (Wholesale), Ltd., Speke Hall Road, Liverpool, have published a new cut-out featuring Mr. Percy Marmont, who is described as the celebrated stage and film star and who always uses a Speeko electric dry shaver. This showpiece is printed in natural colours and should be a valuable sales aid for Speeko.

**MANUFACTURERS OF PROPRIETARIES** are invited to write to The Southern Cross Distributing Co., 2 Kruis Street, P.O. Box 6877, Johannesburg (London office: J. M. Wotherspoon & Co.,

Ltd., 194-200 Bishopsgate, E.C.2), in connexion with the visit of a director of the company, which specialises in the distribution of pharmaceutical and toilet preparations.

**I-BEAM.**—This medicament, which is stated to be produced by a prominent specialist, is claimed to effect clear, bright and sparkling eyes shortly after an application. This product is advertised in the public Press and may be obtained from the usual wholesalers or direct from Melford Institute, Ltd., 2 Denman Street, London, W.1.

**DITMA CINE CAMERA.**—Elsewhere in this issue attention is directed to the Ditmar cine camera, which has obvious advantages, all of which are explained in this issue. As interest in cinematography is growing rapidly, inquiries are invited to Actna, Ltd., 19 Woodstock Street, New Bond Street, London, W.1.

**TRAVEL IN EUROPE.**—The Midland Bank have issued a new edition of their useful booklet entitled "Travel in Europe." It has been entirely revised and contains 20 pages of valuable information which will commend itself to British travellers. Copies may be obtained on personal or written application to the Midland Bank, Ltd., Poultry, London, E.C.2, or any of its branches or affiliated banks in Ireland and Scotland.

**KLEENEX PAPER HANDKERCHIEFS.**—An announcement is made in this issue to the effect that after June 30 both sizes of Kleenex, issued by Cellucotton Products, Ltd., 317 High Holborn, London, W.C.1, will contain an increase in the number of tissues. The smaller size will now contain 136 and the larger size 272. Supplies of the new sizes may be obtained from the usual wholesalers from June 20.

**OSLO PINE BATH SALTS.**—Macleans, Ltd., Great West Road, Brentford, Middlesex, have planned a summer sales drive for Oslo pine bath salts which includes attractive terms for chemists. Showcards, which were illustrated in a recent issue of the *C. & D.*, are available for display. Samples will be distributed this summer through popular periodicals. There are two sizes and special terms are available to direct buyers.

**BOB MARTIN'S NEWSPAPER.**—The new quarterly issue of "The Lead," published by Bob Martin, Ltd., Southport, Lancs, has just been circulated to retailers. This number introduces the new window displays for the coming summer. Display material, we are informed, is printed in attractive colours and is illustrated with studies of dogs' heads specially taken by an animal photographer. Chemists may obtain supplies on request.

**ADIPOSETTES.**—Illustrated on this page is the display stand issued by Francis Riddell, Ltd., Axtell House, Warwick Street, Regent Street, London, W.1, intended to advertise



Adiposettes. These products are described as harmless slimming agents entirely free from thyroid or dinitrophenol products. We are informed that they are extensively advertised. Specimens of the display stand may be obtained on application.



## Parliamentary News

### MEDICAL RESEARCH (SUPPLY OF DRUGS)

Mr. D. Adams asked the Chancellor of the Duchy of Lancaster on May 11 (1) whether he is aware that the Medical Research Council are allocating £30,000, provided by Parliament, for research in chemotherapy; and whether he will satisfy himself that the Medical Research Council, in this scheme, is securing every possible co-operation from industrial concerns; (2) whether steps are being considered to ensure that scientists, medical men and manufacturing chemists shall all be brought into a scheme whereby research into chemical compounds for medical and other purposes, essential particularly to the tropical parts of the British Empire, and to the whole Empire in case of war, may proceed upon lines similar to those followed with such success in Germany, whereby that country has secured a virtual monopoly of drugs particularly necessary in the British Empire?

Earl Winterton: I am assured that in applying this additional grant to the promotion of research in chemotherapy the Medical Research Council will obtain the co-operation of industry as far as possible. The general objects of the scheme are as indicated in the second question, and steps are being taken to ensure that scientists, medical men and manufacturing chemists shall all be brought within its scope.

Sir William Davidson: In view of the fact that many essential drugs of the highest importance are obtainable only in Germany, does my right hon. friend think that a grant of £30,000 is adequate.

Earl Winterton: I am afraid that I must have notice of this question.

### RATS AND MICE (DESTRUCTION) ACT, 1919

Sir R. Glyn asked the Minister of Agriculture on May 16 whether he will publish at a reasonable cost, through the Stationery Office, a summary of the returns that are received by his Department from those local authorities to whom powers under the Rats and Mice (Destruction) Act of 1919 have been delegated, so that the proved effective methods of destruction can be made known to the public and greater efficiency exercised?

Mr. W. S. Morrison: The literature issued by my Department for the assistance of local authorities and others gives full information as to proved effective methods of rat destruction. In the circumstances, I do not think it necessary to adopt the suggestion contained in the first part of the question.

## Trade-Mark Applications

(From "The Trade Marks Journal," May 4, 1938)

"AUXILIN"; for fertilisers (2). By Pennsylvania Chemical Corporation, 407 South Jefferson Street, Orange, New Jersey, U.S.A. 581,476.

"CALCO"; for hydrated lime for horticultural use, etc. (2). By Midhurst Whites, Ltd., Midhurst, Sussex. 582,522.

"SHELL"; for veterinary and sanitary chemicals, etc., for sale in Great Britain and Northern Ireland only, excluding mustard preparations or solid fertilisers (2). By Shell-Mex & B.P., Ltd., St. Helen's Court, London, E.C.3. 582,889. (Associated.)

"VEXONO" and "FLYSLY"; for insecticides (2). By The British Fumigants Co., Ltd., 7 Idol Lane, London, E.C.3. 583,038/584,119.

"VITAGREEN"; for chemical fertilisers (2). By H. M. Roemmele & Co., 65 West Regent Street, Glasgow, C.2. 583,146.

"SANDRAN" and "PARNODAN"; for all goods (2) (3). By Wright, Layman & Umney, Ltd., 44 Southwark Street, London, S.E.1. 584,516/645. (Associated.)

"CENOVIT"; for medicinal yeast (3). By Margaret Rippengal, 23 Bedford Street, London, W.C.2. 578,526. (Associated.)

"BIOMINE"; for medicinal chemicals, excluding gargles and douches (3). By Aktiebolaget A. Lindahls Fabrikker, 25 Nybrogatan, Stockholm, Sweden. 579,509. (Associated.)

"HELORSID"; for medicinal chemicals (3). By Roche Products, Ltd., 47 Bowes Road, London, N.13. 581,940.

"ENSO"; for medicated preparations in coverings soluble only in the intestines (3). By Dr. Hugo Remmler A.G., 38 Anklamer Strasse, Berlin, Germany. 582,314. (Associated.)

"VIVO" label design; for dry smelling salts (3). By Potter & Moore, Ltd., Lavender House, Seymour Road, London, E.10. 583,578.

## Births

Notices for insertion in this column must be properly authenticated.

SAVAGE.—At Tuckton Nursing Home, on May 16, the wife of G. R. Savage, M.P.S., Penn Hill Avenue, Parkstone, Dorset, of a daughter.

## Deaths

COFMAN-NICORESTI.—On April 27, Mr. Carl Adolf Cofman-Nicoresti, M.P.S., Cole Park Road, Twickenham, managing director of Solidol Chemical, Ltd., London, S.E.1, aged fifty-six.

GRAYSON.—Recently, Mr. John Henry Grayson, M.P.S., Solway House, Whitehaven, aged seventy-one. Mr. Grayson was the eldest son of a former Whitehaven chemist, Mr. Joseph Grayson. He served his apprenticeship with his father in Roper Street, qualified in 1888 and subsequently took over his father's business, which he carried on for forty years, later acquiring the business of Mr. Patman, King Street, Whitehaven. He served on the Pharmaceutical Committee for Cumberland from the time the Health Insurance Act came into operation and was its chairman for twenty years.

LOGAN.—At a nursing home, Glasgow, on May 12, Mr. Herbert Millar Logan, M.P.S., 31 Braidfauld Street, Tollcross, and Muir Street, Motherwell. Mr. Logan qualified in 1905.

ROBERTS.—In Liverpool recently, Mr. Owen Roberts, M.P.S., Menai Bridge, Anglesey, aged fifty-two.

SMART.—At 1 Arran Place, Ardrossan, on May 7, Mr. Gordon Smart, M.P.S. Mr. Smart, who retired from business a few years ago, qualified in 1895 and was afterwards in business in Aboyne before going to Ardrossan.

## Personalities

MR. JOHN LAWSON, Ph.C., a buyer and sales manager with Boots, Ltd., Nottingham, has been elected chairman of the West Bridgeford Urban District Council.

In the recent Cabinet changes Mr. Walter Elliot, M.C., M.P., was appointed Minister of Health, and Captain D. Euan Wallace, M.C., Financial Secretary to the Treasury.

MR. CHARLES A. NOBLE, M.P.S., a former member of the Pharmaceutical Society's Council, and MRS. NOBLE sailed in the "Empress of Australia" on May 18 for a holiday in Canada and the United States.

MR. W. GRIFFITHS, who has been elected president of the Thames Valley District Pharmacists' Association, was apprenticed with Mr. Oliver Davies, Mill Street, Pontypridd, his apprenticeship being interrupted by the Great War, during which he served with the Fourth Monmouthshire Regiment. He qualified in 1922 from the Welsh College of Pharmacy, Cardiff, after a period as assistant in that city. He opened his own business in Motspur Park, Surrey, in 1926. He has taken an active interest in the Wimbledon Welsh Society and the Merton and Morden Chamber of Commerce, having served on the Committees of both organisations.

## Coming Events

### Monday, May 23

University of London, Wellcome Institute for Medical Research, Enston Road, London, N.W.1, at 5.30 p.m. Dr. J. W. Trevan on "Response of Animals to Drugs." Also on Tuesday, May 24, and Wednesday, May 25, at 5.30 p.m.

### Tuesday, May 24

West Middlesex Chemists' Association, Palladium Cinema, Ealing Broadway, W.5, at 8.30 p.m. Annual meeting.

### Wednesday, May 25

Liverpool Chemists' Association, Visit to Parke, Davis & Co., Hounslow. Manchester Pharmaceutical Association Tennis Club, Platt Fields, at 2.30 p.m. President's prize competition.

Western (London) Pharmacists' Association, Stewart's Restaurant, 50 Old Bond Street, London, W.1, at 8.30. Annual meeting. Followed by annual meeting of the West London Branch of the P.D.A.





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## Information Department

### INFORMATION WANTED

P/18 Benephedrine	T/14 Miracle dry shaver
M/19 Dindex Ointment	T/14 Nicholl Velvet dry shaver
K/22 Franklin's Blackleg serum	B/16 Red Dragon corn silk
M/18 Harrison's foot support	U/14 Silmet metal polish
A/19 Middleton's Emuls. Benzyl-benzoate	M/18 Sunbeam electric shavers
	S/17 Thermostat hot water bottle



# THE CHEMIST AND DRUGGIST

VOL. CXXVIII

May 21, 1938

NO. 3041

## CONTENTS

	PAGE		PAGE
Birmingham Analyst's Report .....	582	Medical Abstracts .....	598
Births .....	591	News in Pictures .....	579
Business Changes .....	577	News of the Week .....	577
Coming Events .....	591	Parliamentary News .....	591
Company News .....	581	People in the News .....	595
Correspondence:—		Personalities .....	591
Letters .....	605	Pharmaceutical Society of Great Britain:—	
Miscellaneous Inquiries .....	606	Annual Meeting .....	584
Deaths .....	591	Council Election Result... ..	587
Dutch Quinine Industry .....	600	Council Meeting .....	587
Editorial Articles:—		Pharmaceutical Society of Ireland:—	
Growing Co-operative Movement .....	593	Council Meeting .....	588
Pharmaceutical Society's Annual Report .....	593	Retrospect .....	606
American Influence on Trade .....	594	Royal Society Conversations .....	589
Specific Gravity in Pricing .....	594	Scottish Notes .....	580
Ut ante .....	594	Sudan Gum Acacia Exports .....	604
Facials Ancient and Modern .....	599	Topical Reflections .....	580
French Codex .....	583	Trade Marks .....	591
Imperial and Foreign News .....	582	Trade Notes .....	590
Information Department .....	592	Trade Report .....	601
Irish Notes .....	578	U.S. Drug Imports .....	600
Legal Reports .....	581	Withholding of Consent to Improvements .....	596
London Drug Stocks .....	604	Working Model Titration Graph .....	597

## The Growing Co-operative Movement

At last year's Co-operative Congress it was decided to have prepared an economic survey of the co-operative movement in this country. The results of this survey have now been published and will be presented as a report of the Co-operative Congress at Scarborough this Whitsuntide. The report is the first of its kind and directs attention to the striking advance of the co-operative movement in retail trade. We add the following statistics from the departmental analysis in the survey. This is based on the trade figures for 1936 and on the total membership of the co-operative movement.

Department	No. of shops	Trade in £ mill.'s	Average per member week
Grocery (provisions, bread, confectionery, cooked meats)	10,660	13.5	s. d. 6 8
Butchery .....	5,015	19.9	1 0
Greengrocery, fish, fruit and florist .....	1,249	3.9	0 2
Dairy .....	420	18.6	0 11
Drapery .....	2,101	18.4	0 11
Tailoring and outfitting .....	728	6.3	0 4
Boots and shoes (including repairs .....	1,236	5.9	0 3
Furniture, hardware, radio, jewellery and electrical .....	1,013	7.7	0 4
Chemist .....	421	1.6	0 1
Coal .....	—	11.3	0 7

It will be seen that the retail drug trade is much less important than other trades. We do not wish to put forward any hypothetical explanation of this fact; nevertheless, the P.A.T.A. and the Chemists' Friends scheme are bound to have some braking effect on the incursion of the co-operative principle in the drug trade. An interesting feature of the report is seen in the statement that a large percentage of members is not purchasing to an extent

comparable with its purchasing power; certain departments appear to be completely ignored by large numbers of members. The co-operative movement illustrates a peculiar part of the psychology of the public. It is common knowledge that co-operators as a class are in the movement not essentially for any socialistic reason, but because they can count on a certain return of the money spent in co-operative stores in the form of dividends. These dividends are believed to be the profits taken by the independent trader. Obviously, the co-operators themselves do not entirely agree with this dictum, since there are certain commodities which by general consent are believed to be more expensive bought from a co-operative society than from an independent trader. As to the truth of this, we have no knowledge; nevertheless, it is generally accepted and from this report it can be deduced that there is a certain element of truth in it. According to the report, there is room for development and "other secondary departments of the movement, such as chemists . . . are capable of large scale developments."

## Pharmaceutical Society's Annual Report

THE annual report of the Council of the Pharmaceutical Society for 1937 was presented to members at the annual meeting held on May 18. This somewhat voluminous report presents a review of the activities of the Society which are published as they occur during the year. To the chemist who must contribute to the finances of the Society for himself and for his shop, it is obvious that the most interesting section of the report is that concerned with the method whereby the money received is spent. There are other sections, however, which are of particular interest in view of their bearing on the finances of the Society in the years to come. The number of persons registered during the year as apprentices or students was 620, or a decrease of 103 on 1936. The number of student-associates decreased by 61 to 702. The number of premises registered at the end of the year was 15,175. This last-mentioned fact has helped to swell the total income of the Society during the year 1937 to £123,327; this betokened an increase of £3,727. Against this, however, must be set an expenditure of £107,698, an increase over 1936 of no less than £8,505. The expenditure on the school amounted to £286 more and the income £243 more. Expenditure on the pharmacological laboratories was £107 more, and the income £2,336 less. The explanation given is that this is due mainly to the completion of two large orders for tests in the nutrition department. The net cost of the college as a whole is recorded as £8,456. Examination fees amounted to only £283 more than in the previous year, when the amount received was £31,430. Expenditure on the college was £2,068 more. In a few years the Pharmaceutical Society's college is bound to be a heavy drain on the resources, and chemists may be forced to protest at having to carry so great a financial load in these days when education is part of national and municipal services. The law and registration expenses were £1,527 more, because the previous year included inspectors' expenses for seven months only. The income was £1,949 more. Premises registration fees amounted to £16,435.

It is recalled that a loan of £100,000 was received during the year towards the cost of erecting the Society's new headquarters, and while it is stated that the general surplus of £14,214, if maintained, will provide a sufficient margin for meeting the repayments, it is an open secret that some



degree of apprehension is felt in official circles as to the ultimate cost of the new building. It is of interest to note that 1937 was the first complete year during which the new inspection system had been in operation. The number of pharmacies inspected was 13,675 and of other shops 3,901. The premises of 1,268 listed sellers were inspected by the Society's inspectors on behalf of local authorities. One fact to be gathered from this report is that general expenditure seems to keep pace with income. If this continues, it is easy to see that one of the major problems of the council of the Society in the not so distant future will be to find where to get additional revenue. The decreasing number of young persons entering pharmacy cannot be indefinitely disregarded.

### American Influence on Trade

THE contraction in the volume of our international trade during April, as compared with the figures of corresponding month of the previous year is not so drastic as might have been anticipated. The Board of Trade Returns show that there was a general decline in our sea borne trade last month but the aggregates were better than those recorded in April and January-April, 1936. It will be recalled that during the first six months of 1937 we experienced something in the nature of a minor boom with shipments, inwards and outwards, showing substantial increases each month. Compared with April, 1936, our imports for last month show an increase of about six millions sterling and exports of United Kingdom manufactures, were up by about four millions. It is of interest to note that our shipments to the United States of America during the period January-April,

All Classes of Merchandise	Imports	Exports of U.K. Goods	Total Exports including Re-exports
	£	£	£
April, 1938 ...	73,679,570	37,266,307	42,276,828
April, 1937 ...	83,004,322	43,027,931	50,301,518
April, 1936 ...	66,663,627	33,427,144	39,349,195
January-April, 1938	318,410,510	158,135,710	178,936,235
January-April, 1937	312,545,218	164,146,134	190,175,936
January-April, 1936	266,517,229	139,483,164	161,263,550

1938, amounted to about £6,500,000, while in the corresponding period of 1937, they totalled roughly £12,600,000. There is no doubt that the future trend of our export trade will largely depend on conditions in America. The Western Continent is the world's largest consumer and producer, and as such, is the dominating factor in the progress or

Chemicals, Drugs, Dyes and Colours	April			January-April		
	1938	1937	1936	1938	1937	1936
Imports ...	£'000 970	£'000 1,189	£'000 1,082	£'000 4,126	£'000 4,381	£'000 4,140
Exports of U.K. manufactures ...	1,833	2,175	1,639	7,404	8,146	6,816
Re-exports ...	34.2	49.4	38.6	148.4	163.1	143.5

decline of international trade. The value of our trade in "Chemicals, etc." during April and the first four months of

the year, as in other classes of merchandise generally, was less than in the corresponding periods of 1937, but a good deal more than the comparable figures for 1936. The main feature of the industry, however, is well maintained with the credit balance of exports over imports £897,000 in April and £3,424,000 for the period January-April. The chief sources of our imports for January-April were:—Germany, £1,238,272; U.S.A., £748,768; France, £298,412; Switzerland, £274,276; Norway, £190,636; and Belgium, £175,721. The chief buyers of our exports were: India, £963,246; Australia, £598,812; U.S.A., £415,024; South Africa, £578,034; Eire, £377,772, and Canada, £314,853.

### Specific Gravity in Pricing

As it is the custom of the trade for liquids as well as solids to be sold by weight when wholesale quantities are concerned, knowledge of specific gravity of all liquids is a necessity in adjusting retail selling and dispensing prices. (Proprietary liquids do not affect the issue as they are mostly sold by the fluid ounce and not by weight.) The publication of Part VI of The Drug Tariff for N.H.I. pricing of prescriptions serves to remind us of the part specific gravity plays in the *C. & D.* Price List. The decimal system of pricing prescriptions introduced with the so-called commercial tariff made it a necessity to collect all the specific gravities from a variety of sources. The collection of gravities in Part VI is a help in the *C. & D.* list, but it could not be applied so meticulously. A gravity to be of service in ordinary selling or dispensing must be appreciable as the price per pound otherwise would bear no relationship to the sale by ounce or drachm as no coin of the realm exists to be of any service. In devising a pricing chart, save for pound prices 1.1 is usually balanced out against 0.9. When syrups, 1.30, glycerin 1.26, and similar liquids, are considered, the factor of gravity comes into play. Similarly, the same thing applies on the opposite side when spirit meth. indust. 0.82 or any tincture is made with pure spirit medium. In the *C. & D.* Price List all these factors are taken into account in the adjustment of the selling or dispensing price. The use of a price list calculated on a scientific basis saves the chemist time and money as the work has already been done and he is guaranteed against loss through miscalculation. The *C. & D.* list allows further consideration and gives proper values to those galenicals with slow turnover and adjustment which might otherwise lead to pecuniary loss.

### Ut ante

The result of the election of the Council of the Pharmaceutical Society contains no surprises. The seven members who retired have been returned, and obviously the united front is the popular one among those who trouble to vote. Out of 22,986 voting papers issued only 9,419 were returned, and the effective number of voting papers after disallowed and "too late" papers were deducted was 9,307, or approximately 40.5 per cent. Mr. Melhuish, as was to be expected, heads the poll. The co-option of Mr. Franklin and of Mr. Knox Mawer, whose success will be gratifying especially to his Welsh supporters, has been adequately confirmed. Mr. Wilson has again just failed to qualify. Mr. Hodgson in his first attempt has done reasonably well. Last year 22,195 papers were issued and 9,711 were effective, or 43.7 per cent. The decrease therefore is slight, but the result suggests that in the main the voters are still those who previously voted as voluntary members of the Society. There seem to be few of the younger generation of pharmacists who wish to come forward as candidates or even take the trouble to vote. Is the time coming when the Pharmaceutical Society will be looked upon as a "tax-collector" and little else?



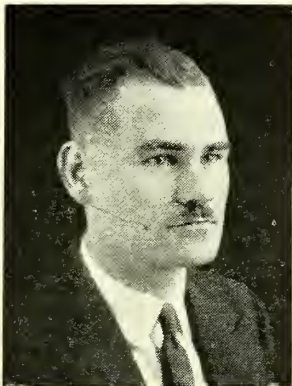
LOCAL CHAIRMEN  
AND PRESIDENTS

# People in the News

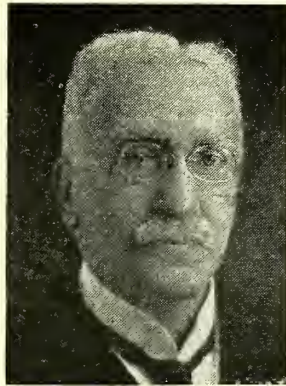
SUCCESSFUL CANDIDATES  
IN COUNCIL ELECTION



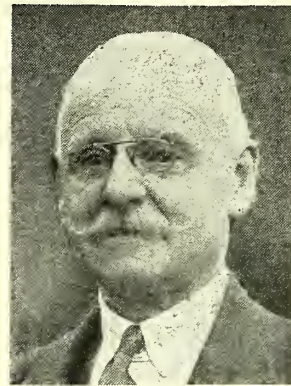
Mr. P. E. Cottis  
(Cambridge and District)



Mr. Dennis Desmond  
(West Ham and Eastern)



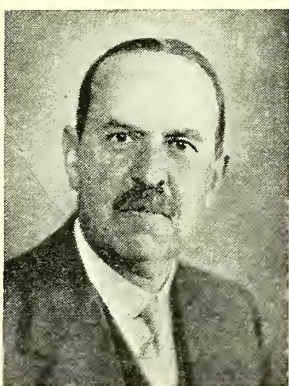
Mr. A. R. Melhuish



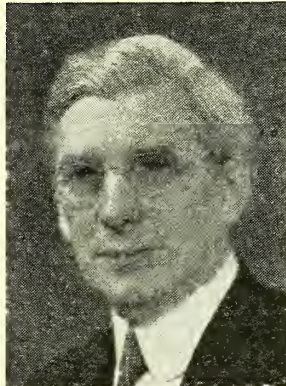
Mr. J. H. Franklin



Mr. W. Griffiths  
(Thames Valley)



Mr. J. Sharp  
(East Cumberland)



Mr. L. Moreton Parry



Mr. J. C. Young



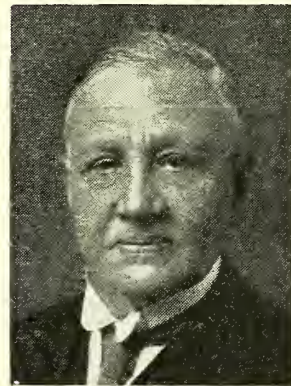
Mr. W. Ll. Thomas (Anglesey,  
Carnarvonshire and Colwyn Bay)



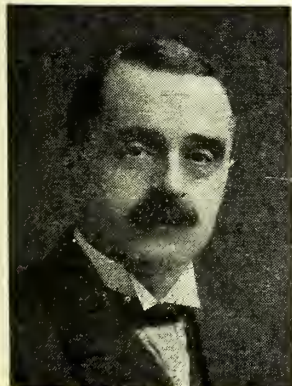
Mr. C. T. Thonger  
(Birmingham P.D.A.)



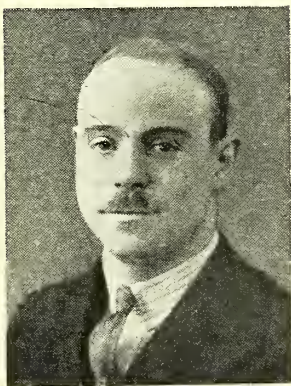
Mr. G. R. Knox Mawer



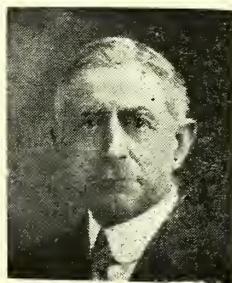
Mr. P. F. Rowsell



Mr. H. W. Wallis  
(Chester)



Mr. A. J. White  
(Bradford)



Mr. A. J. Franklin  
(Brighton, Hove and District)



Mr. F. G. Wells



# Withholding of Consent to Improvements

THE two recent cases of *Woolworth & Co., Ltd., v. Lambert*, have given rise to a number of points on such questions as what constitutes improvements for the purpose of S.19 (2) of the Landlord and Tenant Act, 1927, and what constitutes an unreasonable withholding of consent on the part of the landlord to the execution of alterations to the premises by the tenant, and the present appears accordingly to be an opportune moment for reviewing the position. According to subsection (2) of S.19 of the Landlord and Tenant Act, 1927:—"In all leases whether made before or after the commencement of this Act containing a covenant condition or agreement against the making of improvements without licence or consent, such covenant condition or agreement shall be deemed, notwithstanding any express provision to the contrary, to be subject to a proviso that such licence or consent is not to be unreasonably withheld, but this proviso does not preclude the right to require as a condition of such licence or consent the payment of a reasonable sum in respect of any damage to or diminution in the value of the premises or any neighbouring premises belonging to the landlord, and of any legal or other expenses properly incurred in connexion with such licence or consent, nor in the case of an improvement which does not add to the letting value of the holding does it preclude the right to require as a condition of such licence or consent, where such a requirement would be reasonable, an undertaking on the part of the tenant to reinstate the premises in the condition in which they were before the improvement was executed." There are a number of points to be noted in connexion with the above somewhat involved provision.

## Acts done by Licence

In the first place, it is not restricted to a covenant *totidem verbis*, "against the making of improvements." A covenant against making alterations, or against maiming or injuring walls or timber, and similar covenants would all equally come within S.19 (2) (*Balls Bros., Ltd., v. Sinclair*. 1931. 2. Ch: 325). But the restriction contained in the covenant on the other hand must not be an absolute one, it must be qualified in the sense that the prohibited acts may be done by licence or consent (*Woolworth & Co., Ltd., v. Lambert*. 1936. Ch: 415). Where damage to or diminution in the value of the reversion will result, then the landlord will not be acting unreasonably if he asks as a condition of consent the payment of a reasonable sum in respect thereof. He is in any event to be entitled to be repaid legal and other expenses reasonably incurred in connexion with the licence or consent. Moreover, where the improvement is such that it will not add to the letting value of the holding, consent will not be unreasonably withheld by reason of a requirement that the premises be reinstated at the end of the tenancy. The question arises as to what is an improvement. Is the matter to be determined solely from the point of view of the landlord and the premises themselves or may it be determined solely from the tenant's point of view? This much seems clear from the language of S.19 (2) itself, that the alterations may be an improvement, even though they do not add to the letting value of the holding. The decision of the majority of the members of the Court of Appeal in both the appeals in *Woolworth & Co., Ltd., v. Lambert* (1937. 1. Ch:37) would seem to favour the view that the question of improvements may be properly examined solely from the tenant's angle and if they will be advantageous to him in his occupation of the premises which thereby will be rendered more beneficial they will constitute an improvement. In the above case Messrs. Woolworth were tenants under different landlords of different though adjoining premises. Their proposal was to reconstruct both premises in such a way as to unite them physically, and make them into one complete shop. The Court of Appeal (by a majority) considered that the fact of physical union did not necessarily prevent the alterations from being improvements and they held on the facts that they were in fact improvements within S.19 (2) of the Landlord and Tenant Act, 1927. But where the principal difficulty arose was on the question whether the landlords had unreasonably refused consent to the execution of the improvements. The tenants in making their application for consent gave an undertaking to reinstate the premises at the end of the term

and to give security for the performance of this obligation by means of a policy of insurance. The landlords, however, demanded payment of £7,000 as compensation for the damage to the reversion, which they were advised by their experts would be caused as the result of the alterations, but the tenants refused to pay this sum. The tenants, however, made a counter proposal to pay a reasonable sum in respect of any such damage, which sum in default of agreement was to be determinable by the Court. But this counter proposal was rejected. It may be added that the advice given by the experts to the landlords was that serious damage would be caused by the alterations, although it was impossible to estimate it in advance.

The Court of Appeal and also Clauson, J., held that in the circumstances the landlords had not unreasonably refused their consent and further that they were under no obligation to submit the question as to the quantum of compensation to arbitration. The law on the decision on this point appears to have been that the onus was on the tenant to prove that consent had been unreasonably refused, and that as it was not proved that the sum of £7,000 demanded was unreasonable, the onus had not been discharged. In his judgment (1937. 1. Ch: at p. 52) Lord Wright, M.R., said:—"The matter of debate now is left entirely to rest on this one issue whether £7,000 was or was not a reasonable sum to demand. If it had been proved that it was an unreasonable sum to demand, then I think the tenants would have succeeded in proving that consent was unreasonably withheld. I have not come to that conclusion on the evidence before me. I apprehend the matter will be open now. Attempts have been made to induce the defendants to agree to submit this one issue to arbitration. They are not bound to submit it to arbitration, and the plaintiffs, therefore, if they desire to proceed in the matter, will be able to take such action as they think fit in order to meet the serious difficulty about the question of the reasonable onus."

## Exercise of the Landlords' Right

The line of action subsequently adopted by the tenants, and giving rise to the second action was as follows:—The tenants renewed their application for consent and they submitted a complete set of working drawings, and they repeated their undertaking to reinstate the premises and to give security for the performance of the obligation. But they made no offer to pay any compensation. The landlords thereupon merely refused consent, but did not put forward any counter proposals nor name any figure at all as compensation. In these circumstances Mr. Justice Simonds held consent had not unreasonably been refused, but the Court of Appeal (by a majority) took a different view. It was open, they pointed out, to the landlords to exercise their rights and to require as a condition of the licence or consent the payment of a reasonable sum in respect of the alleged damage or diminution in the value of the reversion. Such a right might have been exercised either by asking for a particular sum or by stating that consent would be given provided that the tenants agreed to pay whatever sum the tribunal might decide to be reasonable. But having failed to exercise that right, it was not now open to the landlords to bring forward as evidence of the reasonableness of their refusal to consent, that the premises would suffer damage or diminution in value by reason of the proposed works, and that no offer of compensation had been made by the tenants. In the circumstances, accordingly, as consent had been unreasonably refused by the landlords, the tenants were entitled to proceed with the execution of the proposed works, and that, too, apparently without being under any obligation to pay any sum at all by way of compensation for the alleged damage or diminution in value of the reversion.

PROGRESS IN ENDOCRINOLOGY.—The May issue of "The Prescriber" contains a systematic review of twelve months' progress in the study of the thyroid gland, parathyroids, adrenals, pituitary, pancreas, female reproductive system, male gonad, etc. The section on pregnancy tests has been enlarged since the corresponding issue of 1937. Structural formulas are presented showing the interrelationship of the male and female hormones.



# A Working Model Titration Graph

By E. J. Schorn, Ph.C., A.I.C.

WHEN an alkaline solution is progressively added to an acid solution there is a continuous variation in  $pH$  during the addition process, critical changes occurring in the neighbourhood of the equivalent point. For practical purposes in acidimetric processes it is sufficient to consider those changes in  $pH$  within, say,  $\pm 10$  drops from the end-point. The  $pH$  at such a stage of a neutralisation may be plotted against the logarithm of the number of drops of titre solution away from the end point in both directions. A logarithmic neutralisation curve is thus obtained and consists of two straight lines, one meeting and the other leaving the  $pH$  ordinate. In defining the position of the entry and exit curves it is necessary to calculate the  $pH$  of the neutralisation

system the calculation is not so simple. It may be derived from the following formula:—

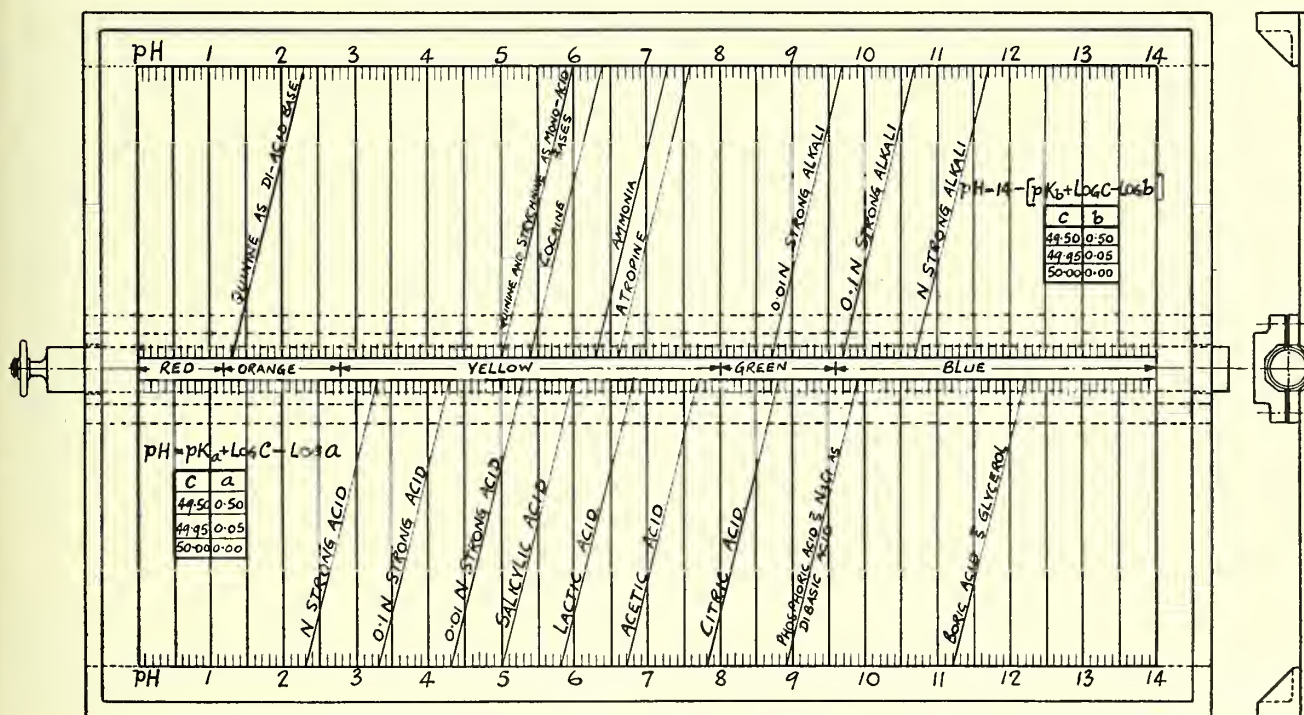
$$pH = pK_a + \log c - \log a$$

Here  $pK_a$  is the negative logarithm of the dissociation constant of the weak acid in question and its value may be obtained from tables of physical constants. The number of millilitres of standard alkali actually added is represented by  $c$ ; the number of millilitres of alkali still required for exact neutralisation is represented by  $a$ .

When  $a = 1$  drop or 0.05 ml.;  $c = 49.95$  ml.

When  $a = 10$  drops or 0.5 ml.;  $c = 49.5$  ml.

For all practical purposes ( $\log c - \log a = 2$  at 10 drops under-



system at four stages. These stages correspond to one drop before and one drop after the end-point ( $\log 1 = 0$ ), and to ten drops before and after the end-point ( $\log 10 = 1$ ). In calculating the  $pH$  certain assumptions may be made:—(1) That 20 drops run from a burette are equal to 1 millilitre, i.e., 1 drop = 0.05 millilitre; (2) that the end volume is constant during the critical stage of a titration, i.e., the volume is not appreciably altered by the number of drops of titre solution added. For purposes of easing calculations let it also be assumed that the end volume equals 100 millilitres and that the exactly equivalent amount of titre solution required equals 50 millilitres.

## Calculations

Quantitative acid/base titrations fall into three systems:—(i) strong acid/strong base, (ii) strong base/weak acid, (iii) strong acid/weak base. In the case of a strong acid/strong base system, the  $pH$  may be approximately calculated before the end-point by determining the concentration of strong acid still to be neutralised. Thus if 0.5 millilitre of  $N/1$  HCl still remains per 100 millilitres, the concentration will be  $N/200$  and the  $pH$  will be  $\log 200$  or 2.3 approximately. This is the  $pH$  ten drops before the end-point. At a stage corresponding to one drop under-titration, the concentration will be  $N/2000$  and the  $pH$  will be 3.3. In the case of a strong base/weak acid

titration and the expression equals 3 at 1 drop under-titration. These values therefore have simply to be added to the value for  $pK_a$ . In the case of a strong acid/weak base system the corresponding formula is:—

$$pH = 14 - [pK_b + \log c - \log b]$$

Here  $pK_b$  is the corresponding physical constant for the base in question. The standard acid actually added is represented by  $c$ , and the amount of under-titration by  $b$ . The value for the expression ( $\log c - \log b$ ) is 3 and 2 for stages corresponding to 1 and 10 drops under-titration respectively. The position of the entry curve may therefore be defined in any particular neutralisation system.

The general method of calculation of  $pH$  after the end-point is similar to the method adopted for calculating the  $pH$  before the end-point in a strong acid/strong base system just outlined. Thus, if the over-titration is equal to 1 drop (0.05 millilitre) standard strong acid, the  $pH$  may be shown to be equal to 3.3 and the reaction at 10 drops over-titration will be  $pH$  2.3. When an excess of standard strong alkali has been added, it may be shown that the  $pOH$  values will be 3.3 and 2.3 for a 1 drop and a 10 drop excess respectively, but at ordinary laboratory temperature it may be accepted that  $pH = 14 - pOH$ , and the corresponding  $pH$  values will be 10.7 and 11.7. In any neutralisation system chosen, the position of the exit curve may also therefore be defined.



### Construction of a Working Model Graph

The usefulness of titration graphs in the study of quantitative neutralisation is well recognised. In order that this usefulness might be fully extended the following apparatus has been designed incorporating a variable instead of a fixed ordinate for  $pH$  so that the relationship between the  $pH$  and the indicator employed may be more intimately connected. The  $pH$  ordinate consists of an eight-sided wooden roller which may be turned at will, each side of the roller representing one of the common indicators and the colour changes of the indicator shown by means of bright oil colours. The eight indicators chosen are thymol blue, bromocresol green, phenol red, bromphenol blue, methyl orange, methyl red, bromthymol blue and phenolphthalein. The roller is first painted a flat white and graduated in pencil so that one  $pH$  unit is 2 in. long; the full acid and alkali colours are then painted according to the accepted ranges of each indicator. The transition stages are shown by shading the full colours into each other and the roller is completed by applying a coat of clear varnish. A wooden box-like frame is made from 1 in. wood so that the external dimensions are 30 in.  $\times$  22½ in.  $\times$  2 in. and the inside length is exactly 28 in., the roller being mounted in this frame centrally in two directions. In the third direction it is mounted so that a coloured side of the roller is a short distance in advance of the front of the frame, the mounting being so arranged that the roller can be turned round its long axis by means of a knob outside the frame. A plywood back, 30 in.  $\times$  22½ in., is then attached by means of screws. The front of the frame is made from two pieces of plywood, each 30 in.  $\times$  11 in., mounted so that they are separated by a distance equal to the width of one side of the roller, namely, about ½ in. The necessary graphs are drawn with indian ink on squared paper using the same scale for  $pH$  as that used for the roller, one piece being used for the entry curves and another for the exit curves. The graph papers are mounted on the front of the frame so that both are in exact register with the roller but are separated from each other by the width of the roller. Each entry and exit curve is labelled with the name of the acid or base chosen to be shown, a coat of clear varnish being finally applied to the paper. The back and sides are also stained and varnished to give the model a finished appearance.

The above description refers to Model A, which is intended

to show the general relationships existing among the various acids and bases which are usually determined volumetrically. The curves are calculated in the manner described above and for the conditions stated there. A model B has also been designed for the particular purpose of showing the  $pH$  obtaining at one drop under and over titration under the conditions laid down by the B.P. for the assay of several common substances. It is made on the same general plan, but it is smaller, the front consisting of two pieces of plywood, 30 in. by 3 in. This model is intended to be used in a vertical position, the knob being mounted at the top if the model is to be demonstrated on the lecture bench and mounted at the bottom if it is to be worked from a wall hook. A plan of the larger model is shown on p. 597. Only some of the curves of the original have been reproduced because of the necessary reduction in size for publication purposes but a sufficient number are shown to indicate the use of the model.

### Uses of the Model

The graph clearly shows whether a sharp end point is to be expected or not in any particular titration, the distance between the entry and exit points being characteristic of the sharpness. The longer this distance is, the sharper is the colour change at the end-point. The choice of indicator also depends on the relative positions of the entry and exit curves and by turning the roller the several indicators may be tested for their suitability, the transition band requiring to fall between the two points. When two indicators satisfy this requirement that indicator with its band nearer the mid-point is perhaps to be preferred. The graph shows the effect of using solutions more dilute than the usual  $N/1$  or  $N/2$  of the Pharmacopœia; it should be noted that the stronger titre solutions lead theoretically to more accurate results. The graph shows the effect of attempting to titrate the very weak acid, boric acid, without the addition of glycerol. It is seen that the exit curve for  $N/1$  alkali is reached before the entry point of the boric acid, quantitative titration being thus impossible. The value of the addition of NaCl to the phosphoric acid during its titration with alkali to the second hydrogen may also be shown. There are many other interesting points which can be made clear by means of the apparatus and its use as a teaching aid has been found invaluable.

## Medical Abstracts

### Eczema Treated by Sulphanilamide

A FURTHER successful application of sulphanilamide is its use in eczema. Hirschmann ("Practitioner," May 1938, p. 641) considers that all eczemas are accompanied by a secondary complicating streptococcal infection when they are first inspected. He states that this infection is so virulent that it often masks the original condition, leaving practically pure streptococcal infection. His experience with anti-streptococcal serums has proved to be disappointing. In consequence he has turned with success to sulphanilamide, which he regards as a specific treatment for eczema. Irritation and weeping of the infected area are reported to have disappeared, and as a result considerable improvement in the local healing processes takes place.

### Antidote for Strychnine

AMONG the many antidotes for poisoning by strychnine are included stimulants, vasodilators, sedatives, inhalant anæsthetics, emetics and even bleeding. Different barbiturates have been also used against strychnine poisoning in laboratory animals. None of these, however, is claimed to be specific, many of them being ineffective and few can be accurately controlled. The successful treatment of strychnine poisoning with barbiturates has been reported from time to time in medical literature, and two interesting cases are recorded by Priest in the "Journal of the American Medical Association," April 30, 1938, p. 1440, in which the antidote used has been sodium isoamylethylbarbiturate. It has been shown that this latter compound given intravenously in small repeated doses acts as an antidote for twenty, twenty-five, thirty and even thirty-five times the subcutaneous minimum lethal dose of strychnine in rabbits. The first case which Priest treated was a farmer,

aged sixty, who had taken about 230 grains of strychnine sulphate in water. This was followed by extreme nausea and vomiting. When examined, the patient was in opisthotonos with his skeletal muscles contracted. A dose of 7½ gr. of the above compound was given intravenously and shortly after the muscles relaxed and he fell asleep. The patient was taken to hospital and about three hours later the muscles became spastic again. A further dose of the drug was given, and throughout the night the patient slept without a further return of the spasms. The following morning he explained that he felt as if his body had been beaten. The second case was also a farmer whose legs became spastic, and because of the symptoms strychnine poisoning was suspected and the man was removed to hospital, where 7½ gr. of the compound was injected intravenously. He slept for ten minutes and then awoke, tetany returning in a few minutes and complete rigidity of the legs being noticed. The dose of the drug was repeated and a stomach lavage was given. After a further hour's sleep, the patient awoke with very active reflexes, which later diminished and the patient fell asleep again. After 14 hours, he awoke, his reflexes still very active, but there was no other evidence of poisoning being present. Examination of the poison taken confirmed that strychnine was present.

FACTORIES ACT SUMMARY.—A handbook dealing with the Factories Act, 1937, which comes into force on July 1, has been brought out by the National Confederation of Employers' Organisations. Requirements under the Act are set out in a clear and easily understood manner and contrasted with corresponding provisions in existing legislation. Copies of the handbook (paper bound, 2s. 9d., post free; cloth bound, 4s., post free) may be obtained from the Confederation, 2 Wood Street, London, S.W.1.



# Facials Ancient and Modern

THE historical and practical aspects of beauty packs have interested a French writer on cosmetics, L. Leduc ("La Parfumerie Moderne," 1937, XII, 463). According to this writer, packs date from the time of the Pharaohs, actually forming part of the religious rites in the worship of Isis. No precise information as to their composition can be traced until the beginning of A.D. 4, at which time (according to Ovid) a wax from sheep's wool was mixed with honey, eggs, powdered ox-horn, gum, barley flour, crushed beans, white lead, narcissus bulbs, powdered orris-root and seagulls' excrement, to give a "glowing" complexion and suppress freckles. Poppœia, wife of Nero, yielded up the secret of her own facial treatment only a few days before receiving from the tyrant the kick in the stomach which was to kill her. Poppœia is said to have kept a pack on her face for whole days and nights, only removing it on the arrival of her beloved emperor. Its base was she-asses' milk, thus constituting this application the first known casein pack. Another early pack consisted of a kind of cataplasm with a base of rice flour and crushed beans. At the court of Catherine de Medici, René (the Court cosmetician) was forced to manufacture soothing packs to combat the corrosive effects of the mercurial skin colourings he devised for his clients.

## Modern Experimental Packs

More recently, radio-active mud packs have been tried, but with little success. This is not altogether to be wondered at, for the process was dirty and unhygienic, possibly even dangerous, the writer states. A thorough washing was necessary after each application, and sterilisation was impossible, as it would have spoiled the mud. Paraffin therapy was tried. This was free from some of the objections to mud. The medium was clean and sterilised (it could safely be heated to more than 115° C.), and applications were possible at temperatures of about 50° C. The pearly covering removed, the face appeared covered with abundant perspiration, but clean. No washing was necessary.

There was, however, one drawback. It was not possible to introduce a medicinal ingredient. Many present-day "facials" are applied not direct to the skin but, at a consistency of soft jelly, on gauze squares or rubber sheets. This system allows curative ointments to penetrate into the outer layer of the epidermis. After the partial failure of paraffin therapy, Fuller's earth was used—mainly in England. This clay mixes well with liquids and is capable of containing a variety of medicinal substances. Unfortunately, its colour is unpleasant.

## Astringent and Soothing Packs

Present-day packs take the names astringent, soothing, whitening, strengthening and cleansing. The main ingredient of astringent packs is colloidal kaolin, which gives a homogeneous jelly the consistency of which may easily be regulated by adding a varying amount of lanolin, vaseline or stearin. Strong astringents are incorporated in some packs, such as aluminium acetate or aceto-tartrate, lactic acid, aluminium sulphate, or alum. Weak astringents, such as zinc oxide, carbonate of lime, distilled water of hamamelis, distilled orange-flower water, distilled rose water, etc., not forgetting fruit juices, produce another type of astringent pack.

Soothing packs are divided into several classes according to the nature of the ingredient used. The principal are amylaceous, albumen and casein, gelatin, alkaline stearate, mucilaginous. The first class includes packs with arrowroot or tapioca; the second have a basis of albumen, casein, glycerin, yolk of egg, milk, lecithin; the third class includes those with a base of isinglass or gelatin; the fourth has for base sweet almond oil, olive oil, cholesterol, paraffin oil, cocoa butter, or stearates of potassium, sodium or triethanolamine; the

fifth comprises packs with base of cucumber juice, marsh-mallow, mucilage of seaweed, mucilage of quince or psyllium. The commercial prototype of soothing packs (the most commonly used) is the casein "facial." Contrary to the procedure with colloidal kaolin packs, which demand a certain skill in preparation—the pack must not dry too quickly nor must it be too liquid—the casein pack does not require any particular care, the emulsion being easily made. Unfortunately, at the end of a few days it ferments; moreover, although it softens and cleans the epidermis very well, its other action is small. Good soothing compounds for greasy skins are casein with weak solution of borax, glycerin or distilled rose water,



or colloidal kaolin with stearin, glycerin, rose water and a trace of triethanolamine. Gelatin packs have been used mainly in America. Their principal advantage is that they are detached at a single pull, and this has a very great psychological effect on the client. They serve admirably as a vehicle for camphor, which is often associated with distilled orange-flower water. A good preparation for both dry skin and greasy skin consists of gelatin, gum tragacanth, zinc or titanium oxide, glycerin and distilled rose water. Mucilage of gum tragacanth gives a quick-drying pack, pulling too much on the skin. Glycerin with gum tragacanth is better as it is soothing, but it has the disadvantage of not whitening the skin. The most satisfactory mucilages are certainly those of seaweed, particularly if 5 per cent. of zinc oxide or peroxide is added. It is stated that excellent results have been obtained with a preparation composed of colloidal kaolin, maize starch, zinc oxide or peroxide, stipine and rose water.

## Strengthening and Other Facials

Strengthening packs are divided into strengthening and whitening, which have a base of zinc or titanium oxide magnesium or zinc peroxide, associated with colloidal kaolin (oxygenated water is deprecated as a whitening agent—it is nearly always decomposed even in an acid medium by the pulverulent products of the packs and may cause erythema); and strengthening and soothing, which include all preparations with fruit juice and colloidal kaolin. Fruit juices have the advantage of being weakly astringent; only fresh juices prepared *in vacuo* and not fermented must be used.

The most frequent are tomato, lemon, strawberry, cucumber. The last three have the disadvantage of readily forming moulds; a weak antiseptic is necessary. Fruit juices must never be associated with casein packs, which do not admit of mixture with either organic or mineral acids. English manufacturers have successfully used Fuller's earth, lemon juice and witch hazel, while some German manufacturers have issued bleaching packs with lead subacetate base. With many women who cannot tolerate lead, these are apt to cause acute irritation. A different type of beauty pack comes from America, the sugared pack; these have nearly always a honey base. They have the advantage of making the complexion bright, but if the honey is insufficiently refined or of bad quality it may contain phenylacetic acid and cause irritation. Cleansing packs contain, say, corrosive sublimate 1 in 1,000, acetone 1 in 6, salicylic acid 1 in 100, combined with colloidal kaolin. It is absolutely indispensable, says the writer, before applying a pack to take note of the nature of the skin and to follow the rule: Greasy pack for dry skin, dry pack for greasy skin. Perfuming packs is not recommended. For colouring them it is necessary to choose colours which do not stain the skin.

A general rule is to use basic colours or carmine lakes. Animal black is useful for casein packs, as if there is a suspicion of fermentation it absorbs the unpleasant smell released. The writer concludes on a note of confidence that, thanks to the patient work of research workers, powerful and non-toxic rejuvenators of the epidermal cells will be perfected, and the appearance of outward signs of age controlled.



## U.S.A. Drug Imports

DETAILS of imports of some of the leading crude drugs and botanicals into the United States of America during recent years are given in the following tables:—  
(‘000 omitted)

Product	1933		1934		1935		1936		1937	
	Lb.	\$	Lb.	\$	Lb.	\$	Lb.	\$	Lb.	\$
Cinchona bark	1,814	561	1,690	668	1,618	631	2,051	745	1,836	761
Senna	2,121	94	1,303	82	2,304	103	1,733	85	2,553	119
Pyrethrum	10,435	1,524	10,583	2,059	15,578	2,042	11,757	943	20,092	2,204
Liquorice root	41,649	780	53,013	938	59,731	1,134	55,161	1,037	69,600	1,353
„ extract	991	119	561	86	691	111	709	104	740	64
Opium, crude	121	317	134	554	88	407	171	709	184	663

IMPORTS OF EPHEDRA HERB from all sources during the past seven years were:—

Year	Lb.	\$	Year	Lb.	\$
1931	500,000	22,000	1935	1,948,000	64,000
1932	510,000	13,000	1936	1,000,000	22,000
1933	191,000	4,000	1937	788,000	22,000
1934	540,000	13,000			

IMPORTS OF SANTONIN increased last year, and the declared import value per lb., averaging a little better than \$18 during the year, was the lowest recorded in many years. Imports since 1924 were as follows:—

Year	Lb.	\$	Year	Lb.	\$	Year	Lb.	\$
1924	1,418	84,700	1929	1,565	181,400	1934	1,177	44,000
1925	1,126	60,200	1930	273	32,000	1935	1,118	27,044
1926	1,584	60,700	1931	714	69,500	1936	1,489	34,733
1927	2,007	209,400	1932	261	15,400	1937	2,012	36,738
1928	1,845	218,000	1933	1,834	88,700			

PSYLLIUM SEED imports have advanced steadily since 1934. British India and France are the chief sources of supply of this product—the former supplying 1,712,000 lb. and the latter 1,343,000 lb. in 1936. Imports for the past six years were as follows:—

Year	Lb.	\$	Year	Lb.	\$
1932	5,503,000	466,000	1935	2,158,000	130,000
1933	4,403,000	247,000	1936	3,092,000	207,000
1934	1,645,000	106,000	1937	3,185,066	314,369

IMPORTS OF ERGOT continued heavy last year despite conditions in Spain. Of the total amount imported in 1936 Portugal supplied 132,000 lb., Spain 26,000 lb., Germany 39,600 lb., Belgium 20,000 lb., the United Kingdom 11,500 lb. and the U.S.S.R. only 396 lb.

Imports since 1924 were as follows:—

Year	Lb.	\$	Year	Lb.	\$
1924	170,000	37,000	1931	287,000	99,000
1925	155,000	66,000	1932	198,000	67,000
1926	207,000	157,000	1933	331,000	65,000
1927	230,000	209,000	1934	209,000	64,000
1928	300,000	297,000	1935	252,000	184,000
1929	228,000	116,000	1936	238,000	269,000
1930	291,000	137,000	1937	241,000	306,000

GUM IMPORTS.—Arrivals at U.S.A. ports during the past four years were as follows:—

Description	1934		1935		1936		1937	
	Lb.	Value	Lb.	Value	Lb.	Value	Lb.	Value
Acacia	6,347	384	7,955	622	8,424	619	9,494	771
Tragacanth	1,275	335	2,474	571	2,093	592	3,244	1,382
Karaya and talka	4,107	413	4,830	311	5,401	598	7,205	938
Other gums and resins	3,156	336	4,072	421	—	410	—	811

Thousands, in weight and value, omitted.

## Dutch Quinine Industry

DURING 1937 imports of cinchona bark into Holland amounted to 7,388 metric tons, according to the U.S.A. Department of Commerce "World Trade Notes," compared with 6,691 tons during the preceding year, an increase of more than 10 per cent. Except 466 tons, which came from Bolivia, and 45 tons, which came from non-specified countries, all imports originated in the Netherlands Indies. The following table gives the total imports for the past five years:—

Year	Metric tons	Value (1,000 guilders)	Average Value per kilog. (guilders)
1933	3,900	4,313	1.11
1934	6,399	6,144	0.96
1935	4,691	4,328	0.92
1936	6,691	6,596	0.99
1937	7,388	7,817	1.05

Shipments of cinchona bark to Holland represented the bulk of the entire Netherlands Indian exports in 1937, small quantities having been shipped to Italy and Japan as well as to a few other countries in the Far East. Practically all shipments to the Netherlands are received at Amsterdam, where special facilities have been established for the storage and treatment of cinchona bark. Cinchona bark entering Holland, however, is not entirely intended for delivery to the quinine factories in that country, considerable quantities being re-exported. The following table indicates re-exports of cinchona bark from Holland during the years 1933-37 inclusive, as well as the total value and the average declared value per kilog.

Year	Metric tons	Value (1,000 guilders)	Average Value per kilog. (guilders)
1933	3,597	4,706	1.31
1934	3,321	4,191	1.26
1935	3,741	4,384	1.17
1936	4,041	4,690	1.16
1937	3,898	5,758	1.48

The following table indicates the principal countries taking cinchona bark exported from Holland during the last five years, together with the average price (in parenthesis) per kilog.

Destination	1933	1934	1935	1936	1937
Germany	1,703 (1.36)	1,508 (1.38)	1,849 (1.15)	2,029 (1.13)	1,936 (1.48)
Britain	6 (0.62)	193 (1.10)	81 (1.08)	237 (1.01)	260 (1.08)
France	960 (1.25)	623 (1.04)	732 (1.18)	740 (1.19)	699 (1.39)
Italy	33 (0.86)	30 (0.77)	29 (0.76)	10 (0.86)	Not specified
Switzerland	2 (0.83)	186 (1.14)	306 (1.20)	145 (1.09)	219 (1.42)
United States	846 (1.31)	732 (1.34)	702 (1.28)	833 (1.30)	722 (1.76)

Exports of quinine compounds from Holland during the past five years give an indication of the production of local factories. Shipments to all destinations of quinine sulphate and other quinine salts were as follows:—

Year	Metric tons	Value (1,000 guilders)	Year	Metric tons	Value (1,000 guilders)
1933	594	7,019	1936	653	7,554
1934	478	5,510	1937	580	9,095
1935	541	6,570			

The principal countries of destination for quinine compounds exported from Holland in 1937 were Great Britain (116 tons), Italy (115 tons), Greece (107 tons), the United States (94 tons), Iran (34 tons), Turkey (18 tons), British India (16 tons) and Venezuela (13 tons).

HONG KONG EXPORTS OF CASSIA OIL.—Re-exports of Chinese cassia oil from Hong Kong totalled 389,000 lb., valued at \$204,000, in 1937, against 332,000 lb., valued at \$167,000, during the preceding year. Shipments to the United States during these periods increased from 113,000 lb., valued at \$67,400, to 178,000 lb., valued at \$108,600.

CANARY ISLANDS COCHINEAL PRODUCTION.—Cochineal production in the islands of Tenerife, Las Palmas and Hierro during the six months of the 1937 producing season totalled 24,000 lb., which was about the same as that of the 1935 season, but well above the 1936 output.



# Trade Report

Where possible scales of prices of chemicals are given for bulk down to small quantities. Prices recorded for crude drugs, essential and fixed oils and coal tar products are for fair sized wholesale quantities. Qualities of chemicals, drugs, essential and fixed oils, etc., vary, and selected brands or grades would be at higher values

28 Essex Street, W.C.2, May 19

THE markets have attracted a little more business this week, but the general character of the demand is still restricted to smallish consuming requirements. The speculative markets remain dull, with quotations at low levels, while the tone in other products continues fairly steady. Export business to the Continent, chiefly Scandinavian countries, has been fairly good, but business with the American continent remains very disappointing. In the Pharmaceutical Chemicals markets there is little to comment upon. Business continues on a minor scale and there are some products where competition is becoming rather keen. STRYCHNINE SALTS continue at the reductions notified last week for home trade and export to Empire destinations, Canada excepted. GLYCERIN, B.P., is steady at the recent decline.

## Crude Drugs

The general tone is quiet, due, principally, to the lack of activity in speculative articles, but the aggregate of business in ordinary trading products is fair, with orders limited to minimum quantities. AGAR moves quietly on spot. Good demand continues on spot for CURAÇAO ALOES; supplies available now limited and no definite shipment offers of new crop. Moderate sales of BUCHU on spot at steady prices. There has been some interest in the shipment market for new crop CASCARA SAGRADA, but buyers have not yet come in, although prices have moved a little in their direction. Bergen reports a better demand for Norwegian COD-LIVER OIL; shipment market steady. COLOCYNTH is offered cheaply on spot. West African GINGER is quoted at low figures for new crop. Sudan GUM ACACIA is again easier, with the demand here remaining poor. Egyptian HENNA is in short supply on spot and quoted dearer. Arrivals of Jamaican HONEY have sold quite well this week. Rather more business this week in MATTO GROSSO IPECACUANHA. Japanese MENTHOL has been quiet; shipment steady. Good business on spot in rough round RHUBARB; shipment slightly easier. RUBBER shows a loss on the week. All descriptions of SENNA are quoted unchanged. TRAGACANTH has been dull and values are not so steady as hitherto. Shipment prices for Madras TURMERIC are sharply dearer. BEES' and CARNAUBA WAXES are very quiet and quoted rather easier.

## Essential Oils

Only a restricted business continues in these products, and a number of items are suffering from exceedingly keen competition, due in most instances to offerings of oil of indifferent character. Shipment prices for ANISE (STAR) continue downwards, while the limited supplies on spot are keeping fairly steady. BERGAMOT is quoted unchanged. White CAMPHOR oils are very steady and in small supply on spot. CASSIA remains dull and rather unsteady. CITRONELLA oils have been neglected, so far as shipment business is concerned. One or two well-informed quarters indicate a firmer tone in the shipment market for Sicilian hand-pressed LEMON. LEMON-GRASS is steadier for shipment. Very little demand on spot for French Guinea ORANGE, and the market has barely maintained recent values. PALMAROSA is firm, with practically no shipment offers. Japanese PEPPERMINT has had a quiet week.

## Exchange Rates on London

THE following is a list of the chief Continental and other exchange rates at the opening on Thursday morning:—

Centre	Quoted	Par	May 12	May 19
Amsterdam ...	Fls. to £	12.107	8.97½	8.98
Berlin ...	Mks. to £	20.43	12.37	12.36
Brussels ...	Belgas to £	nominal	29.54	29.54
Copenhagen ...	Kr. to £	18.159	22.40	22.40
Lisbon ...	Esc. to £	110	110½	110½
Madrid ...	Ptas. to £	25.24½	nominal	nominal
Milan ...	Lire to £	92.46	94½	94½
Montreal ...	Dols. to £	4.86½	5.00½	5.01
New York ...	Dols. to £	nominal	4.97½	4.96
Oslo ...	Kr. to £	18.159	19.90	19.90
Paris ...	Fr. to £	124.21	176	177½
Prague ...	Kr. to £	164.25	142½	142½
Stockholm ...	Kr. to £	18.150	19.40	19.40
Warsaw ...	Zloty to £	43.38	26½	26½
Zurich ...	Fr. to £	25.2115	21.76	21.76

Bank rate 2 per cent.

## Pharmaceutical Chemicals, etc.

THESE markets continue to do a moderate amount of business with the tone about steady. Strychnine salts continue at the reduction notified last week.

ASPIRIN (TABLETS).—The following are agreed wholesale prices for the British makers: Under 5,000, 3s. per 1,000; 5,000, 2s. 11d.; 10,000, 2s. 10d.; 25,000, 2s. 9d.; 50,000, 2s. 8d.; 75,000, 2s. 7d.; 100,000, 2s. 6d.; 250,000, 2s. 5d.; 500,000, 2s. 4d.; 1,000,000, 2s. 3d.; 2,000,000 and over, 2s. 2d. per thousand tablets. A rebate of 1d. per 1,000 is allowed on orders for 10 million tablets taken over a period of 12 months. For small quantities higher prices would be asked by wholesale distributors.

BARBITONE.—Dealers doing a limited spot business: two cwt., 8s. 11d.; 56 lb., 9s. 2d.; less than 56 lb., 9s. 5d. per lb., ex store, London.

BENZOIC ACID (B.P.).—Quoted unchanged, average business: quantities, ex works, 1s. 9d.; spot parcels, 1s. 10d. to 2s. 3d. per lb., ex store, as to quantity.

BORAX (B.P.).—Makers' prices steady: granulated, £24; crystals, £25; powdered, £25 10s.; extra fine powder, £26 per ton, in one-cwt. bags, carriage paid buyers' works for minimum 1-ton lots. Extra for smaller quantities. Commercial quality, £8 per ton less for all descriptions.

BORIC ACID (B.P.).—Makers' prices continue steady: granulated, £36 10s.; crystals, £37 10s.; powder, £38 10s.; extra fine powder, £40 10s. per ton, in 1-cwt. bags, carriage paid to buyers' works on 1-ton minimum. Commercial quality, £8 per ton cheaper for all descriptions.

BROMIDES.—Makers' scales of prices steady. POTASSIUM, B.P., five cwt., 1s. 8d.; one cwt., 1s. 9d.; 28 lb., 2s. per lb. SODIUM, B.P., five cwt., 1s. 10d.; one cwt., 1s. 11d.; 28 lb., 2s. 2d. per lb. AMMONIUM, B.P., five cwt., 1s. 11d.; one cwt., 2s.; 28 lb., 2s. 3d. per lb. net. Resale clause applies. 28-lb. parcels and one-cwt. cases free. Smaller quantities than 28 lb. at higher prices. Export quotations are maintained as follows: POTASSIUM, B.P., five cwt., 1s. 4d.; one cwt., 1s. 4½d. SODIUM, B.P., five cwt., 1s. 5d.; one cwt., 1s. 5½d. AMMONIUM, B.P., five cwt., 1s. 6½d.; one cwt., 1s. 7d. per lb., f.o.b.

CITRIC ACID (B.P. CRYSTALS).—Fair business with quotations unchanged: British material quoted at 1s. 0½d. per lb., less 5 per cent. discount, nominal and without engagement. Dealers' prices for imported material are competitive.

CREAM OF TARTAR.—Steady with average business reported: British material, 99 to 100 per cent., 92s. per cwt., less 2½ per cent. discount. Dealers' prices for foreign material competitive.

EPHEDRINE.—The demand continues negligible. Makers' quotations for Hydrochloride, B.P., remain at about 8s. to 9s. per oz., as to quantity. Pure, alkaloid, is offering in the region of 12s. 6d. per oz. for small lots.

GALLIC ACID.—Makers' prices steady: one cwt., 3s.; 56 lb., 3s. 1d.; smaller parcels, up to 3s. 6d. per lb.

GLYCERIN (B.P.).—Makers' prices continue steady at the recent reduction of 10s. per cwt.

Price per cwt.

Contracts or Spot Lots of	Under 1 cwt.	1 cwt. and under 2½ cwt.	2½ cwt. and under 5 cwt.	5 cwt. and under 10 cwt.	10 cwt. and under 20 cwt.	1 ton and under 5 tons
Minimum deliveries off contract of	—	1 cwt.	1 cwt.	1 cwt.	2 cwt.	5 cwt.
Tins, 14 lb. each	per cwt. 102/6	98/-	97/-	94/-	93/-	89/-
Tins, 28 lb. "	" 99/6	95/6	94/6	91/6	90/6	86/6
Tins, 56 lb. "	" 96/6	93/-	92/-	89/-	88/-	84/-
Drums, 1 cwt. (charged 20/-) "	" 88/6	87/6	84/6	83/6	79/6	76/6
Drums, 2½ cwt. ( " 60/-) "	" —	85/6	82/6	81/6	77/6	77/6
Drums, 5 cwt. ( " 75/-) "	" —	—	82/-	81/-	77/-	77/-
Drums, 10 cwt. ( " 100/-) "	" —	—	—	80/6	76/6	76/6
Extra per cwt. for smaller deliveries ex contract than as above specified	5 cwt. and under 10 cwt. ...	—	—	—	—	—
	2 cwt. and under 5 cwt. ...	—	—	—	—	6d.
	1 cwt. and under 2 cwt. ...	—	—	—	6d.	1/-
	Under 1 cwt. ...	1/-	1/-	1/-	1/6	2/-

Refined Pale Straw Industrial Glycerin. 1.260 S.G. 5/- per cwt. less than chemically pure.



**PHENACETIN.**—Continues steady with a moderate business moving: crystals or powder, bulk quantities, 2s. 6d.; smaller parcels, 2s. 7d. to 3s. per lb., as to quantity.

**PHENAZONE.**—A keen and quiet market: crystals, five cwt., 6s. 9½d.; two cwt., 7s.; one cwt., 7s. 3d.; and less, 7s. 6d. per lb., with powder 2½d. per lb. extra.

**PHOTOGRAPHIC CHEMICALS.**—Home makers' prices are as follows: **AMIDOL.**—28 lb., 8s.; 14 lb., 8s. 9d.; 7 lb., 9s. 6d.; in free 7-lb. tins; under 7 lb., 12s. per lb., in free 1-lb. bottles. **CHLORQUINOL.**—1-lb. bottles, 21s. per lb. **GLYCIN.**—7 lb., 10s. 6d.; 1-lb. bottles, 13s. 6d. per lb. **HYDROQUINONE.**—56 lb., 4s. 10½d.; 28 lb., 5s.; 14 lb., 5s. 3d.; 7 lb., 5s. 6d.; in 1-lb. bottles, 6s. 6d. per lb. **METOL.**—28 lb., 9s. 6d.; 14 lb., 9s. 9d.; 7 lb., 10s. 6d., tins free; 3 lb., 12s., bottles free; 1-lb. bottles, 12s. 6d. per lb., bottles free. **ALUM (PHOTOGRAPHIC QUALITY).**—1 cwt., 21s. per cwt.; 28 lb. for 6s. **GOLD CHLORIDE.**—15-grain tubes, 45s. per doz. **MAGNESIUM POWDER.**—10s. per lb. **PARAMIDOPHENOL HYDROCHLOR.**—8s. 6d. per lb., bottles free. **POTASSIUM FERRICYANIDE.**—14 lb., 2s. 2d.; 7 lb., 2s. 4d.; 1 lb., 2s. 6d. per lb. **POTASSIUM METABISULPHITE.**—One cwt., 8d.; 28 lb., 9d.; 14 lb., 10d.; 7 lb., 1s. per lb. **PYROGALLIC ACID, CRYST.**—28 lb., 7s. 3d.; 14 lb., 8s.; 7 lb., 8s. 9d.; under 7 lb., 9s. 3d. per lb. **SODIUM (CARBONATE RECRYST.)**—5 cwt., 12s. 6d. per cwt.; 1 cwt., 15s. 6d. per cwt.; 56 lb. for 11s. 6d.; 28 lb. for 6s. **SODIUM HYPOSULPHITE, CUBES, CRYST.**—5 cwt., 17s.; 1 cwt., 19s. 6d. per cwt., 56 lb. for 11s. 6d.; 28 lb. for 6s. **SODIUM SULPHIDE (PURE).**—7 lb., 1s. 9d.; 1 lb., 2s. per lb., bottles and jars free. **SODIUM SULPHITE, RECRYST.**—One cwt., 21s. 6d. per cwt.; 56 lb. for 13s. 6d.; 28 lb. for 7s.

**QUININE SALTS.**—Convention prices continue unchanged: sulphate, 2s. 2d.; bisulphate, 2s. 2d.; ethyl carbonate, 2s. 9½d.; salicylate, 2s. 10½d.; hydrochloride, 2s. 8½d.; dihydrochloride, 3s.; hydrobromide, 2s. 8½d.; dihydrobromide, 3s.; valerianate, 3s. 8d.; hydriophosphate, 4s.; alkaloid, 3s. 0½d. per oz., carriage paid on bulk quantities; 100-oz. tins free, smaller, packages extra.

**SALOL.**—A keen market with little demand; market dull: 2s. 3d. to 2s. 6d. per lb., as to quantity.

**SANTONIN.**—The quotation continues nominal at £15 per kilo., with spot sellers from about £10 15s. for bulk quantities and up to £12 10s. for small parcels.

**SODIUM BENZOATE (B.P.).**—A fair amount of small business reported: one cwt., 1s. 5d.; smaller parcels, 1s. 6d. to 1s. 10½d. per lb. as to quantity.

**SODIUM DIETHYLBARBITURATE.**—Controlled prices are unchanged: spot, one cwt., 11s.; 28 lb., 11s. 3d.; 14 lb., 11s. 6d.; 7 lb., 11s. 9d.; smaller parcels up to 12s. 3d. per lb.

**SODIUM SALICYLATE (B.P.).**—Business remains rather quiet: home trade, crystals or powder, five cwt., 1s. 5½d.; one cwt., 1s. 6d.; 28 lb., 1s. 9d.; 14 lb., 1s. 10½d.; 7 lb., 1s. 11½d.; 1 lb., 2s. 4d. per lb.

**STRYCHNINE SALTS.**—Home makers' scales of prices for home trade and for export to British Empire destinations (excluding Canada) continue at the reduction recorded last week. Contracts will not be accepted at current prices.

	Under 100 oz.	Under 500 oz.	500 oz. and over
	Home or f.o.b. British Empire	Home or c.i.f. British Empire	Home or c.i.f. British Empire
	Per oz. s. d.	Per oz. s. d.	Per oz. s. d.
Pure Crystals ... ..	1 3½	1 3½	1 3
" "Præcip. ... ..	1 3½	1 3½	1 3
Acetate ... ..	1 10	1 10	1 8
Arseniate ... ..	1 9	1 9	1 7
Arsenite ... ..	1 10	1 10	1 8
Bisulphate ... ..	0 10	0 10	0 9½
Hydrochloride ... ..	1 1½	1 1½	1 1
Hypophosphite ... ..	3 4	3 4	3 2
Nitrate Crystals ... ..	1 1½	1 1½	1 1
" " Powder ... ..	1 1½	1 1½	1 1
" " " No. 2 ... ..	0 10½	0 10½	0 9½
Phosphate ... ..	2 1	2 1	1 11
Sulphate Neut. Cryst. ... ..	1 0	1 0	0 11½
" " Powder ... ..	1 0	1 0	0 11½
" " " No. 2 ... ..	0 10½	0 10½	0 9½

25-oz. tins free. Export cases free. 1-oz. bottles 2d. each extra. For export—1 per cent. cash in ten days. Terms: net, 30 days. Contracts cannot be accepted. For export: buyers held covered against price reduction for ten days after arrival of steamer at port of destination.

**SUGAR OF MILK.**—Home makers are quoting 10 cwt. at 85s. and 2 cwt. at 87s. per cwt.

**SULPHANILAMIDE (SULPHONAMIDE).**—Prices are over a wide range, according to quantity and source. The average figures are from 10s. 6d. to 14s. per lb.

**TARTARIC ACID (B.P. CRYSTALS).**—Market continues steady: British makers quote at 1s. 1½d. per lb., less 5 per cent. discount, dealers offering foreign materials at competitive prices.

## Crude Drugs, etc.

**AGAR.**—A small spot demand and some export trade to Scandinavian countries; shipment market steady but quiet: spot, Kobe, No. 1, 3s. to 3s. 1d.; No. 2, 2s. 10½d. to 3s. Yokohama, No. 1, 2s. 10½d. per lb.; shipment, Kobe, No. 1, May-June, 2s. 6½d.; July-August, 2s. 7d.; No. 2, May-June, 2s. 4d.; Yokohama, No. 1, 2s. 4d. per lb., c.i.f.

**ALOE.**—The demand on spot for Curaçao continues and stocks in public warehouses are now at a very low level; spot values are firm. No offers of new crop from the source, but a figure of 145s., c.i.f., indicated: Cape, spot, 63s. to 64s.; shipment, about 62s. 6d. per cwt., c.i.f. Curaçao, spot, now quoted from 138s. to 150s. per cwt., as to quality. One shipment offer at 145s., c.i.f.

**ANTIMONY.**—Values are steadier: Chinese, crude, spot, £40; shipment, May-June, £36, c.i.f. English regulus, £75 to £78 per ton, ex store.

**ARNICA FLOWERS.**—Dealers are quoting small parcels of spot flowers at 1s. 3d. per lb., ex store.

**BALSAMS.**—New crop Canada continues to be quoted at about 4s. 6d., c.i.f., with little buying: spot, *Tolu*, 1s. 8d.; *Canada*, nominal; *Copaiba*, Para, 1s. 9d.; *Peru*, 4s. 6d. per lb., spot.

**BELLADONNA.**—A small spot trade: leaves, 55s.; root, high testing, 60s. per cwt., spot.

**BUCHU.**—A limited sale of bales of new crop and a few bales of old leaves have also been cleared at about steady prices: Fair to good green rounds at about 1s. 8d. to 1s. 8½d.; ordinary, rather stalky, slightly less. Some few bales of old crop leaves might be picked up at 1s. 5d. to 1s. 6d., as to quality; shipment quoted at 1s. 5d., c.i.f., for f.a.q.

**CAMPBOL.**—A rather better demand on spot for Japanese: Japanese monopoly BB grade is £8 per 100 lb.; Japanese, natural, spot, tablets, 2s. 6½d.; powder, 2s. 3d.; slabs, 2s. 2½d. per lb., ex store; shipment, tablets, 2s. 2½d.; powder, 2s.; slabs, 1s. 11d. per lb., c.i.f.; English refined flowers, one cwt., 3s. 1d.; 28 lb., 3s. 2d.; small lots, 3s. 3d. per lb. Transparent tablets, 4 oz., 8 oz. and 16 oz., 3s. 4d.; 1 oz. and 2 oz., 3s. 5d.; ½ oz., ½ oz. and ¼ oz., 3s. 6d. per lb.

**CANTHARIDES.**—A quiet spot demand: Chinese, spot, 2s. 1d. to 2s. 2d. per lb., as to quantity; shipment, 1s. 7d. per lb., c.i.f. Russian, about 4s. 6d. per lb., spot.

**CASCARA SAGRADA.**—Spot business has been fair in small lots. There is general interest in the development of the new crop shipment market: spot, 1937 peel, 54s. to 54s. 6d.; old peel, 62s. 6d. to 70s. per cwt., ex store. Shipment offers of new crop, from 37s. 9d. up to 40s. per cwt., c.i.f., with buyers holding off.

**CELERY SEEDS.**—Dealers are offering spot supplies at about 80s. per cwt., ex store.

**CHAMOMILES.**—Spot supplies of last season's good white flowers are available at about 165s., with seconds at 135s. and old flowers from 95s. to 110s. per cwt., ex store.

**CLOVES.**—Values are about level on the week, market quiet: Zanzibar, spot, 8½d.; shipment, May-June, 8d. per lb., c.i.f. Madagascar, in bond, 7d.; shipment, May-June, 6½d. per lb., c.i.f.

The landings of Zanzibar in London during the week ended May 14 were *nil*, and the deliveries 15, leaving a stock of 1,170. From January 1 to date the landings of Zanzibar have been 1,185 and the deliveries 1,084. Landings of Madagascar for the week ended May 14 were *nil*, and the deliveries *nil*, leaving a stock of 1,471. From January 1 to date the landings of Madagascar have been 739 and the deliveries 1,344 packages.

**COCONUT (DESICCATED).**—Market continues quiet, values about steady: spot, fine, 17s.; medium, 16s. 6d. per cwt.; shipment, halves, May-June-July, 16s. per cwt., c.i.f.

**COD-LIVER OIL.**—Bergen reports poor results from Finmarken fishing. Results to May 14: 146,588 tons of cod and 64,885 hectol. of oil, compared with 143,464 tons of cod and 72,085 hectol. of oil on the same date in 1937, and 122,000 tons of cod and 58,541 hectol. of oil in 1936. The demand has improved a little and the shipment market is reported rather firmer: finest Lofoten steam-refined non-freezing medicinal oil, 90s. per barrel, c.i.f. London. Small lots, on spot, about 132s. 6d. per barrel, ex store, duty paid. British finest medicinal oil, 115s. per 25-gallon drum, delivered U.K., with rebates for 25 or more drums.

**COLCHICUM.**—Spot supplies of root are quoted at about 46s. to 47s. 6d. per cwt., as to quantity.

**COLOCYNTH.**—Plenty of pulp on offer on spot from 1s. to 1s. 3d. per lb., as to quality and quantity. Demand is slow.

**ERGOT.**—Rather more business moving on spot, with Spanish-Portuguese quoted at 3s. 9d. to 4s. per lb., as to quantity. No Russian here and no news of new crop. The shipment market for Spanish-Portuguese is firmer, with 3s. 8d., c.i.f., reported paid.

**GENTIAN.**—A quiet spot demand. Good clean French root, 39s. to 40s. Continental, about 37s. per cwt., ex store, for fair quantities.

**GINGER.**—Business remains quiet, with quotations at low values: West African, spot, 27s.; for shipment, May-June, 22s. per cwt., c.i.f. Jamaican, spot, bold, in barrels, 80s. to 85s.; small grinding, in bags, 55s. to 60s. per cwt., c.i.f. Cochin, new crop, fair washed, unbleached, 43s. per cwt., spot.



**GUM ACACIA.**—Prices quoted are again easier, but there is little evidence of any improvement in demand: Kordofan, cleaned sorts, spot, 37s. 6d.; shipment, 35s. 6d. per cwt., c.i.f.

**HENBANE.**—Continues quiet: quoted at about 70s. per cwt., ex store, for small spot parcels.

**HENNA.**—Rather dearer and in short supply: Egyptian brown leaves, 30s.; one parcel of green leaves with the price about 40s. per cwt., c.i.f.

**HONEY.**—Quite a nice business is reported in the arrivals of Jamaican; values are keeping steady: Jamaican, dark manufacturing, 30s. up to 45s. per pale set. Old crop at slightly cheaper prices. Californian, 50s., duty paid, and Canadian, 52s. 6d. per cwt., ex store.

**HYDRASTIS.**—A modest spot trade reported, market steady: root testing, 3 per cent., 15s. 3d.; U.S.P. quality, 15s.; and untested root, about 14s. 9d. per lb.; shipment, 14s. 9d. per lb., c.i.f.

**IPECACUANHA.**—Rather more doing on spot and stocks of good quality root are now depleted: Matto Grosso, B.P., spot, 7s. 3d.; shipment, 6s. 6d. per lb., c.i.f., with a bid of 6s. 3d., c.i.f., reported refused.

**LAVERNER FLOWERS.**—Supplies of good blue flowers are available on spot at 1s. 6d. per lb., ex store.

**LIGUORICE.**—Natural root is offering on spot at about 12s. 6d. per cwt. and decorticated at 35s. per cwt.

**LYCOPodium.**—Business quiet, dealers are quoting spot supplies at about 4s. 9d. per lb.

**MANNA.**—Spot supplies of selected flake, in 1-lb. tins, are available at 3s. 6d. per lb., ex store.

**MENTHOL.**—Market has been rather quiet, but prices are quite steady. Spot stocks are comparatively small and there is no sign of a break in shippers' quotations. K/S brands, spot, 12s. 3d. to 12s. 4½d.; in bond, 11s. Japanese shippers quote any position at 10s. 9d., c.i.f., and have refused bids of 10s. 3d., c.i.f. Chinese, spot, 12s. 1½d. to 12s. 3d.; shipment, 10s. 7½d. per lb., c.i.f.

**MERCURY.**—Demand is quiet; distributors' prices are unchanged; London stocks available: spot, £12 10s. to £12 10s. 6d. per bottle, ex store. F.o.b. Continent, 62 dollars.

**OPIMUM.**—Continues steady with a moderate spot demand: Turkish, original cases of 170 lb., 13 per cent., 1s. 1d. Iranian, 12 per cent., 1s. 1d. per unit, landed and duty paid.

**ORANGE PEEL.**—Dealers' prices for small spot parcels are maintained: bitter quarters, 9d.; bitter ribbons, 9d.; thin cut, 11d. per lb., ex store.

**ORRIS ROOT.**—Some spot supplies of Florentine root are available at about 35s. per cwt., ex store.

**PEPPER.**—Business has been on the quiet side; values level on the week: Lampong, in bond, 2½d.; shipment, May-July, 2½d.; August-October, 2½d., c.i.f. Tellicherry, spot, 4d.; shipment, May-June, 3s. c.i.f. Aleppy, spot, 3½d.; shipment, May-June, 34s., c.i.f. White Muntok, in bond, 3½d.; shipment, August-October, 3½d., c.i.f. London Terminal Market, Black, May, 2½d.; July, 2½d.; October, 2½d. White, May, 3½d.; July, 3½d.; October, 4d. per lb.

**PIMENTO.**—Values are maintained, business slow: spot, 7½d. per lb.; shipment, June-July, 59s. per cwt., c.i.f.

**RHUBARB.**—Quite a good demand for rough round, with spot values steady: spot, Shensi, best quality, 4s. 9d. to 5s. 3d.; old, very slightly wormy, 3s. 9d. to 4s. 3d.; pickings, about 3s. 9d. per lb.; rough round, 2s. 4d. to 2s. 7d. per lb., as to quality; shipment, ordinary quality, 1s. 8½d. per lb., c.i.f.

**RUBBER.**—Values are fractionally easier on the week, business limited: standard ribbed smoked sheet, spot, 5½d.; May, 5½d.; June, 5½d.; July-September, 5½d.; October-December, 5½d. per lb.

**SAFFRON.**—The small spot supplies of genuine Valencia are firm as quoted from 85s. to 87s. 6d. per lb., ex store.

**SEEDS.**—**ANISE.**—Spot, duty paid, Spanish, 60s.; Bulgarian, 41s.; Syrian, 40s. **CANARY.**—Market quiet; all prices quoted are spot, duty paid: Mazagan, 17s. 6d., Turkish, 16s.; Plate, 16s. 3d.; Morocco, 3 per cent., 16s. 6d.; Spanish, 20s. to 32s. 6d. **CARAWAY.**—Dutch, on spot, 33s. 6d., duty paid; 28s. 6d. quoted f.o.b. Holland. **CORIANDER.**—Morocco, on spot, 19s. duty paid; new crop for June-July shipment quoted at 13s. 6d., c.i.f. **CUMIN.**—Spot, Malta, 40s., duty free; Morocco, 37s. 6d., duty paid. **FENUGREEK.**—Morocco, on spot, is 13s., duty paid. **MUSTARD.**—English, 19s. to 30s. per cwt., according to quality.

**SENEGA.**—Not much interest in this article: spot, 2s. 4d.; shipment, 2s. 2½d. to 2s. 3½d. per lb., c.i.f., August shipment.

**SENNA.**—Prices quoted for all descriptions are steady and unchanged; business of little importance: Tinnevely leaves.—Parcels of fair green quality offer on the spot as follows:—No. 1, at 5½d.; No. 2, at 3½d.; No. 3, at 2½d.; No. 4, at 2½d. per lb., ex wharf, London. Tinnevely hand-picked pods.—Best palish quality is quoted at 6d. per lb., with darker shades offering at 3½d. to 4d. per lb. Alexandrian hand-picked pods.—The market is still poorly supplied, and it would appear that the crop this season is below normal. Spot quotations are as follows: good bold selected, at 5s.; No. 1, at 3s. 9d.; No. 2, at 3s.; No. 3, at 2s. 3d. per lb., with old crop pods offering at 3s. per lb. down to 1s., according to quality.

**SHELLAC.**—The market is steadier, with a little more business moving: spot, standard TN orange, 38s. 6d. to 41s. 6d.; fine orange, 57s. 6d. to 100s.; pure button, 55s. to 60s. per cwt. For delivery, TN, May, 37s. 6d.; August, 38s. 6d. paid. For arrival, TN, June-July, 36s. per cwt., c.i.f.

**SLIPPERY ELM BARK.**—Some spot demand, with dealers' prices unchanged: grinding quality, 6½d.; clippings, 8½d.; selected loose slabs, 1s. 2d.; 5-lb. wired bundles of selected quality are firm at 2s. 3d. per lb., ex store.

**SQUILL.**—The spot price for fair white is about 27s. 6d. per cwt. for small parcels.

**STRAMONIUM.**—Dealers are quoting spot supplies from 35s. to 40s. per cwt., according to the quality of the leaves.

**TONKA BEANS.**—Demand quiet and steady: fair frosted Para beans, 3s. 4d. to 3s. 5d. per lb., ex store.

**TRAGACANTH.**—Spot values for all descriptions of gum are about steady; business has been poor: finest selected white ribbon, £70; No. 1 white, £60 to £65; No. 2 white, £52 10s. to £56; No. 3 white, £37 10s. to £48; amber leaf, £22 10s.; cleaned amber sorts, £17 10s.; brown to amber leaf, £12 10s.; red leaf, £9 10s. to £10 10s.; hoggy, £7 to £8 per cwt., ex store.

**TURNERIC.**—The shipment market for Madras is much dearer and firm, with quotations now ranging from 24s. 6d. to 26s. per cwt., c.i.f. for new crop. Rajapore is also dearer at about the same figures for shipment. Supplies on spot are very limited and amount to a small number of bags of Madras, with the price at the moment 29s. 6d. to 30s. per cwt., ex store.

**VALERIAN ROOT.**—Little spot business, with small parcels offering at about 30s. per cwt., ex store.

**WAXES.**—**BEES.**—Market has remained quiet: Calcutta, bleached, spot, 132s. 6d.; shipment, June-July, 122s. 6d., c.i.f.; ordinary quality, spot, 107s.; shipment, June-July, 99s. per cwt., c.i.f. Benguella, in bond, 97s. 6d.; shipment, June-July, 85s., c.i.f. Conakry, spot, 97s. 6d.; shipment, June-July, 85s., c.i.f. Dar-es-Salaam, spot, 107s. 6d.; shipment, June-July, 95s., c.i.f. **CARNAUBA.**—Market has been very quiet: fatty, grey, spot, 150s.; afloat, 145s.; shipment, June-July, 143s., c.i.f. Chalky, grey, spot, 150s.; afloat, 145s.; shipment, June-July, 142s., c.i.f. Primeira, spot, good quality, 190s.; afloat, 175s.; shipment, June-July, 172s. 6d., c.i.f. Mediana, spot, 180s.; shipment, 170s. per cwt., c.i.f.

### Essential and Expressed Oils, etc.

A QUIET tone continues, with business chiefly restricted to smallish consuming requirements. Anise (Star) is again easier forward. Sicilian lemon tends dearer for shipment. French Guinea orange remains neglected. Japanese peppermint is quiet but steady.

**ALMOND.**—Quotations for the expressed oil are about steady: English made, cwt. lots, 2s. 8d.; smaller parcels, up to 3s. per lb.; foreign, cwt. lots, 2s. 8d.; smaller parcels, up to 3s. per lb.; French bitter, 6s. to 6s. 3d. per lb.

**ANISE (STAR).**—With spot stocks of good oil somewhat limited, prices tend steadier, despite the cheap shipment offers: spot, leads, 4s. 1½d.; tins, 3s. 9d.; drums, 3s. 8d. per lb., ex store; shipment, tins, 3s.; drums, 2s. 10½d. to 2s. 11d. per lb., c.i.f.

**AVOCADO PEAR.**—Californian oil is quoted on spot from 47s. to 54s. per gallon, as to quantity, ex store.

**BERGAMOT.**—Average business in small lots on spot, with genuine oil at 15s. to 15s. 4½d. per lb.; blended oils at cheaper figures. The source reports a steady demand, with the Consortium shipment price maintained at 14s. 9d. per lb., c.i.f.

**BOIS DE ROSE.**—Market remains quiet: Brazilian oil at about 5s. 6d. in drums, and smaller quantities up to 6s. 3d. per lb.

**CAJUPUT.**—Dealers' prices maintained: B.P., 2s. to 2s. 3d. per lb., as to quantity, ex store.

**CAMPFUR.**—White oils in small supply and firm at 108s. to 110s. per cwt. in drums. No shipment offers of Chinese and very few offers of Japanese.

**CANANGA.**—Rather easy as quoted on spot; shipment rather cheaper: spot, about 5s. 1½d., with smaller parcels up to 5s. 6d. per lb.; shipment, 4s. 7d. per lb., c.i.f.

**CARAWAY.**—Small business reported, values steady: Dutch rectified, 7s. 3d. to 7s. 6d.; crude, 6s. 9d. to 7s. per lb., landed and duty paid, as to quantity.

**CASSIA.**—On spot in leads are steady at 3s. 4½d. and off-quality oil offering at about 3s. 1d. to 3s. 2d.; shipment quiet and easier, leads, 2s. 10½d.; drums, 2s. 9d. per lb., c.i.f.

**CEDARWOOD.**—Continues quiet, with quotations unchanged: African, in drums, 11½d.; smaller packages, up to 1s. 3d. per lb. American, in drums, 11½d.; smaller packages, up to 1s. 3d. per lb.

**CINNAMON LEAF.**—Ceylon oil is now quoted for shipment at about 2s. 4d., c.i.f., in drums.

**CIIRONELLA.**—Markets have remained distinctly quiet except for small spot business; quoted values nominally unchanged: Ceylon, spot, drums, 1s. 5½d. to 1s. 6d.; smaller parcels, up to 1s. 9d.; shipment, drums, 1s. 3d. per lb., c.i.f. Java, spot, drums, 1s. 10½d. to 1s. 11d.; smaller parcels, up to 2s. 3d.; shipment, drums, about 1s. 4½d. per lb., c.i.f.



**CLOVE.**—Average small spot business. Madagascar for shipment is slightly cheaper on the franc: Madagascar, spot, drums, 3s. 2½d.; small parcels up to 3s. 9d. per lb.; shipment, about 2s. 4d., c.i.f. English, distilled, 4s. 7½d. to 4s. 10½d. per lb., as to quantity.

**EUCALYPTUS.**—Rather more inquiry for shipment and some quotations are keen: Australian, 70 to 75 per cent., tins, 1s. 5½d. to 1s. 6d.; drums, 1s. 5d.; with inferior oils at less; 80 to 85 per cent., drums, 1s. 9d. per lb., landed; higher prices for small lots on spot. Shipment, 70 to 75 per cent., tins, 1s. 3d.; drums, 1s. 2½d.; 80 to 85 per cent., 1s. 6½d. per lb., c.i.f.

**GERANIUM.**—The shipment price for Bourbon is nominal owing to lack of firm offers; tentative prices have been in the region of 11s., c.i.f. Algerian is nominally unchanged: Bourbon, spot, 12s. 6d. to 13s.; shipment, nominal, c.i.f. Algerian, spot, 13s. 6d. to 13s. 9d.; shipment, about 13s. per lb., c.i.f.

**GRAPE-FRUIT.**—Fair amount of business in small parcels: Californian, 10s. 6d. to 12s. Florida, 10s. 6d. to 11s. 3d. per lb., as to quantity.

**HO (SHIU).**—Business has been disappointing for some time: spot supplies of good quality oil reported to be moderate. "Improved" quality, 4s. 1d.; "extra" quality, 4s. 4d. per lb., in drums, and higher prices for smaller lots. Shipment, "extra" quality, 4s. per lb., c.i.f.

**JUNIPER BERRY.**—Dealers report a quiet trade on spot: quoted according to quality and quantity from 3s. 3d. to 4s. per lb.

**LAVENDER.**—Prices tend rather easier on the franc: 38 to 40 per cent. oil ranging from 14s. to 15s. per lb., as to quality. Lavandin is quoted on spot from 5s. 3d. to 6s. per lb., as to quality.

**LEMON.**—A fair amount of business in the Sicilian oil is reported, mostly for spot supplies. The source reports a fair demand and adds that the crop of oil for this season is less than was estimated, and will be little, if any, more than the production of the previous season. A distributor of one of the best brands reports the shipment price is up to 10s. 9d., c.i.f., and that business has been done at that figure in London. Other importers stated their quotations are so far unchanged in the region of 10s. 3d. per lb., c.i.f., for bulk quantities. Californian distilled, regular quality, 6s. 4d. per lb., landed in small drums.

**LEMONGRASS.**—The shipment market is reported steadier at the rather better figure: quoted at about 1s. 5½d. to 1s. 5½d. per lb., c.i.f.; spot, sellers, from 1s. 8d. to 1s. 10d. per lb., ex store.

**OLIVE.**—Market tended rather easier, but is now reported steady and unchanged: 1 per cent., 5s. 8d.; 2 per cent., 5s. 6d. per gallon in 45/50-gallon drums. French, edible quality, 73s. 6d. for cases of 10 one-gallon tins and 77s. 6d. for 20 half-gallon tins; 6s. per gallon in 50-gallon drums.

**ORANGE.**—The chief feature of this market is the continued lack of demand on spot: French Guinea oil, in drums, about 3s. 3d.; in tins in cases, 3s. 6d.; drums, in bond, 2s. 10½d. Shipment offers from the source at 2s. 8d. per lb., c.i.f., in drums. Californian, spot, one case, 4s. 6d.; two or more cases, 4s. 3½d.; large drums, not quoted; small drums, 4s. 2d. per lb., landed.

**PALMAROSA.**—The shipment market continues nominal at 7s. 3d., c.i.f., with practically nothing available. Good quality oil on spot in limited supply and held for 8s. 2d. to 8s. 3d. per lb., ex store.

**PATCHOULI.**—Market remains quiet and easy as quoted: Singapore, about 14s. 3d.; shipment, 13s. 3d. per lb., c.i.f. Seychellers, 11s. 4d.; shipment, about 10s. 6d. per lb., c.i.f.

**PEPPERMINT.**—Market dealing in the Japanese product has been on the quiet side, but prices are keeping steady: spot, 4s. 4d. to 4s. 5d., as to quantity and seller. Orders sent out to the source at 3s. 10½d., c.i.f., brought back offers at 4s. 1½d., c.i.f. On the market there are buyers of any position at 3s. 11d., c.i.f., with sellers at 4s. 1d., c.i.f. A bid of 3s. 11d., c.i.f., for October-December next was cabled to the source, with a reply that no sellers so far forward: American natural oil, in drums, remains quiet, and shipment prices are reported steady at 1 dollar 95 cents to 2 dollars 10 cents, c.i.f., as to brand, in drums.

**PETITGRAIN.**—A little spot business reported; shipment quotations are steady: spot, cases, 4s.; shipment, 3s. 4½d. per lb., c.i.f.

**RAISIN SEED.**—Spot supplies of Californian are quoted from 2s. 4d. to 2s. 6d. per lb., ex store, according to quality.

**ROSEMARY.**—Spot values are keeping steady: Spanish oil about 3s. up to 3s. 7½d. per lb., as to quality and quantity. No definite shipments offers from the source. New crop oil, produced in Morocco, offering at about 3s. 2d. per lb., c.i.f. New crop, Tunis oil, to come forward, 2s. 9d. to 3s. per lb., landed, as to quantity.

**SANDALWOOD.**—Genuine East Indian Mysore, in one-case lots, continues steady at 20s. 6d. per lb. Genuine East Indian, produced outside the province of Mysore, 18s. 3d. to 18s. 6d. per lb., c.i.f., in bulk quantities. English-made West Indian, 7s. 3d. per lb. Australian, steady at 15s. 3d. per lb., for 7 1-lb. tins; one case of 14s. 9d. and five cases at 14s. 6d. per lb.

**SPIKE.**—A small spot demand with genuine oils steady on quotation: Spanish oils from 5s. 6d. to 6s. per lb. Blended oils at cheaper prices.

**WORMSEED.**—Shipment prices are very steady: U.S.P. oil, spot 11s. to 11s. 3d.; shipment, about 10s. 7d. per lb., c.i.f.

## Sudan Gum Acacia Exports

Boxall & Co. report shipments during March 1938, totalled 3,593 tons, compared with 2,540 tons in March 1937. Shipments during January-March 1938, totalled 8,096 tons, compared with 7,365 tons in the corresponding three months of 1937. The chief destinations were as follows:—

Destination	1937			1938		
	Jan.-Feb.	Mar.	Total	Jan.-Feb.	Mar.	Total
Great Britain ...	806	655	1,461	900	912	1,812
U.S.A. ...	764	572	1,336	454	639	1,093
France ...	548	388	936	800	484	1,284
Germany ...	580	295	875	521	343	864
Italy ...	290	5	295	122	53	175
Belgium ...	264	105	369	155	378	893
Japan ...	771	17	788	90	109	199
Holland ...	93	100	193	163	137	300
Sweden ...	130	62	192	194	125	319
Norway ...	12	11	23	23	7	30
Australia ...	170	62	232	216	149	365
China ...	99	14	113	19	13	32
Canada ...	28	40	68	35	10	45
British India ...	35	26	61	60	21	81
Denmark ...	43	33	76	66	24	90
Finland ...	47	27	74	52	23	75
Poland ...	15	11	26	27	12	39
Greece ...	27	16	43	33	2	35
Egypt ...	10	21	31	44	22	66
Argentina ...	15	—	15	65	30	95
Brazil ...	6	13	19	24	27	51

The export figures are made up of the following quantities:—

	Hashab	Bleached	Talha	Total
March, 1937 ...	2,115	16	409	2,540
March, 1938 ...	3,333	14	246	3,593
January-March, 1937	6,525	29	811	7,365
January-March, 1938	7,534	32	530	8,096

## London Drug Stocks

ARRIVALS, deliveries and stocks in London at April 30, 1938, 1937 and 1936, were as follows:—

Article	Quantity	April		Stocks		
		Landed	De-livered	1938	1937	1936
Aloes ...	cwt.	74	—	141	356	218
Anise (Star) ...	cwt.	—	5	54	464	47
Calumba root ...	bags	240	163	1,300	2	261
Camphor ...	packages	—	26	348	268	409
Cardamoms ...	cwt.	224	216	746	278	409
Cascara sagrada ...	tons	3	8	101	68	55
Cochineal ...	bags	—	7	39	38	47
Cubeb ...	bags	—	1	6	1	8
Dragons blood ...	cases	7	11	133	175	191
Galls (China and Japan)	cases	—	—	70	948	638
Galls (Turkey and Persian)	bags	19	29	261	242	170
Gums:—						
Acacia (all descriptions)	packages	2,323	1,807	13,365	10,028	12,668
Ammoniacum ...	packages	—	2	58	39	26
Animi ...	packages	63	59	266	417	462
Asafoetida ...	cwt.	—	3	352	374	380
Benzoin ...	cwt.	40	58	542	221	929
Copal ...	packages	4,059	2,948	14,658	13,896	12,668
Dammar ...	packages	1,196	1,479	7,012	5,758	5,773
Gualacum ...	cwt.	—	8	19	63	137
Gamboge ...	cwt.	—	5	17	17	52
Kowrie ...	tons (net)	21	49	208	122	156
Mastic ...	packages	39	27	50	47	10
Myrrh, E.I. ...	packages	18	15	25	10	129
Olibanum ...	packages	22	1	246	209	272
Sandarac ...	packages	85	101	290	135	194
Tragacanth ...	packages	420	238	5,073	2,164	6,078
Ipecacuanha:—						
(Matto Grosso)	cwt.	—	74	25	105	240
(Other sorts)	cwt.	6	9	50	78	—
Nux Vomica ...	cwt.	—	—	220	112	128
Rhubarb and Rhapontica ...	cwt.	—	17	520	111	204
Sarsaparilla ...	cwt.	63	30	264	233	401
Senna ...	bales	373	396	2,222	2,887	4,057
Shellac, orange	cases	2,657	3,798	127,432	136,248	134,045
Turmeric (Bengal)	tons	—	—	5	18	74
Turmeric (Madras, Cochin, etc.) ...	tons	1	21	42	87	110
Waxes, bees' ...	packages	665	940	3,273	2,661	2,950
Waxes, Japanese	packages	128	161	394	450	337



# Correspondence

Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor

## The Pharmaceutical Council Election

SIR,—May I be permitted to claim a little of your valuable space to thank sincerely all who voted for me at the Pharmaceutical Council Election, and this particularly applies to my many dear friends in the Manchester and Salford district who nominated and supported me so loyally. May I also be permitted to state to all our members that in my opinion there never was so opportune a moment in the history of pharmacy as the present for getting something done, and I shall be most disappointed if the Committee of Inquiry does not report that the time is now ripe for a determined effort to rectify some of the grievances under which pharmacy has too long suffered.

Yours faithfully,

J. H. FRANKLIN.

Manchester.

## Employees' Union

SIR,—I have been reading for some time the various letters and comments on this question in *THE CHEMIST AND DRUGGIST* with a great deal of interest mixed with amusement. My mind goes back to the time when, under the Whitley Council instructions I, with other chemists' assistants, formed an Association of Chemists' Assistants. As one of the area secretaries it was a matter of pride to myself that as far as our area was concerned it was a very successful association. In fact, the late Lord Trent sent a letter to your paper expressing his gratification at the sane and businesslike way we were conducting our affairs. We had great hopes for the future of this Association, but they were shattered by the disloyalty of its members and the ease by which they were stampeded by outside persons who wished to wreck what was becoming a strong body. This outside influence resulted eventually in the absorption of the Association into a "Drug and Chemical Workers' Union." . . . I write this letter because, although times have changed, chemists' assistants to-day are very much the same as they were twenty years ago, and it seems to me that a new association would be a failure due to the lack of coherence amongst chemist assistants. Although now an employer myself, I should like to see a strong, active association in being, but it seems to me that loyalty and a sane businesslike outlook would be as much necessary to-day as it was then. A successful association must come from within and not be imposed upon the assistants by outside people. If I were back in my old position, I would hesitate a long time before taking any active part, because I could not submit myself to suffer the humiliation and disappointment which I and my friends suffered then.—Yours faithfully,

Birmingham.

J. M. JOHNSON.

## Poisons and the Public

SIR,—Probably few chemists have the chance to see the contempt with which many land-owners treat poisons, once the regulations governing the sales have been complied with, and this is just as well, for the utter futility of many of the restrictions would be more fully realised. Fortunate is it for the chemist that, provided his sale is conducted in accordance with the regulations, he has no further responsibility, for in many cases, particularly among farmers, once a poison is in their possession it ceases to be regarded as a potential source of danger. In a recent suicide case at a farm death was due to drinking nicotine from a bottle which had remained in a corner of the dairy, almost forgotten, for many years, until this tragedy acted as a sad reminder. One has only to visit a few farms to realise how carelessly poisons are left about in all kinds of odd containers, sometimes with no label to show their nature, and considering this, it is surprising how few accidents happen as a result of it. During the wasp season some users of potassium cyanide treat this as though it were quite harmless. Another rather foolish practice is placing lambing oil in a wine bottle and leaving it, to save trouble, often hanging from the fence in the field where the sheep are. There is always the danger that some small child may come along and sample the contents, and even if not sufficient is swallowed to prove fatal, serious results might follow. A cautioning word by the chemist is often helpful, and if on inquiry

it is found that the poison may be transferred to another container, a label should be given for attaching to this. So, until steps are taken to make the public appreciate how important it is to keep poisons in a properly labelled container and under lock and key, regulations on the sale are comparatively futile.—Yours truly,

R. H. HUDSON.

Cranbrook.

## Chemists and A.R.P. Schemes

SIR,—The letters of "Warden" and "R.F.T." (*C. & D.*, May 14, pp. 575-6) regarding the pharmacist and the A.R.P. schemes are much to the point. As one who has nearly completed a course in anti-gas, I agree with the Government advice to us to remain on duty at our shops. I think after a raid we shall be needed there by our regular customers, and that the general public will expect to find us there for our help and advice. It will be easier to find a chemist's shop than a first-aid station or patrol, I should imagine, and the power of a trained pharmacist to give real help and in allaying panic will be very great. All chemists should take one of the official courses, and then they and the Society must press the Government for an official status or rank; they must be senior to the A.R.P. volunteers, and not expected to take orders from people, however well meaning and patriotic, who have no medical training except that obtained from a course of nine lectures.—Yours faithfully,

C. A. P. (13/5.)

## Pharmacy's Slogan

SIR,—When reading the statements which you have published from the candidates for the Council it has struck me that the slogan "Pharmacy for the pharmacist" has occurred in them with more than the usual frequency, and I am in the same mind as yourself when you say it would be advantageous to have some concrete definition of what exactly is meant (*C. & D.*, May 14, p. 561). If the proposed extension of the National Health Insurance Acts benefits to the dependants of insured persons comes into force, it would carry us a long way towards the achievement of this object, but for pharmacy to become a purely professional occupation it is also necessary for the remuneration to be sufficient to enable the pharmacist to carry on his business on the returns from his professional work. I maintain that unless we get an entirely new tariff with dispensing fees on a scale sufficient to do this, then the extra work will not be worth having. Another point raised by some of the candidates is the question of an organisation to represent employees. In respect of this, questions were asked at the meeting held at West Ham (p. 553), whether the suggested union was to include both qualified and unqualified assistants, and this is of primary importance, because I should imagine the unqualified employees considerably outnumber the qualified. Even these two classes can be further subdivided: there are the qualified assistants and managers who are simply employees, and there are also those who are superintendents of limited companies, holding one share in the company and having a seat on the board of directors; in all but name they are in the position of employees. Would these latter be eligible as members of a union of assistants? To turn to the unqualified, here again these can be sub-divided into two sections, those who have served a proper indentured apprenticeship and the others, mostly girls, who, after a few months' work in the pharmacy, consider themselves chemists' assistants. Are these to be considered to come within the scope of a union for genuine chemists' employees? An analysis of the situation on these lines shows in a marked degree the inherent weakness of pharmacy, it reduces it to a trade which up to certain limitations can be entered by anybody without any special education or training; in a world in which "pharmacy for the pharmacist" became an accomplished fact, there would only be the apprentice, the improver who had served his apprenticeship and who was entering for his examinations, and eventually the qualified pharmacist, who would at last enter his proper sphere.—Yours faithfully,

UNITY (16/5).



## Miscellaneous Inquiries

We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them

*R. B. L. (17/48).—FACE PEEL.*—By this we take it you mean preparations of the nature of mud packs which generally consist of either fuller's earth, kaolin or kieselguhr and are made up with starch paste, mucilage of tragacanth or a non-greasy cream.

I	
Kieselguhr .. .. .	60.00 gm.
Borax .. .. .	1.00 gm.
Menthol .. .. .	0.05 gm.
Oil of neroli .. .. .	0.05 gm.
Oil of rose .. .. .	0.05 gm.
Glycerin .. .. .	25.00 gm.

Distilled water to make a paste.

II	
Kaolin .. .. .	5x.
Lemon juice .. .. .	5j.
Magnesium sulphate .. .. .	5j.
Glycerin acid boric .. .. .	5j.
Water .. .. .	5iv.

Dissolve Epsom salts in the water before working into the mass; if this is too stiff, increase the amount of water.

(2) *EYE SHADOW.*—The following formula for eye shadow will probably meet your requirements:—

Mineral oil .. .. .	5 lb.
Lanolin .. .. .	2 lb.
Soft paraffin .. .. .	1 lb.
Beeswax .. .. .	1 lb.
Hard paraffin .. .. .	2 lb.
Perfume oil .. .. .	4 oz.

The colourings you require may be made from the following:—

Blue		Brown	
Ultramarine blue .. .. .	2 lb.	Burnt umber .. .. .	3 lb.
Zinc oxide .. .. .	2 lb.	Zinc oxide .. .. .	1 lb.

*R. & D. (13/38).—REMOVAL OF NICOTINE STAINS.*—Moisten the part stained with a 5 per cent. solution of potassium permanganate. When dry, moisten with a 5 per cent. solution of sodium thiosulphate and allow the latter to dry. Finally, apply dilute hydrochloric acid by means of a pledget of cotton wool.

*J. M. B. (29/4).—WHITE BRYONY.*—The specimen is the root of the white bryony or wild vine (*Bryonia dioica* Jacq.), a climbing plant of the order Cucurbitaceæ, common in hedges in South England. The root is often of considerable size and weight, and sometimes bifurcates, resembling mandrake root, and in some districts is called "English Mandrake." Gerard and Culpeper attribute many virtues to the drug. Bryony root is intensely bitter, is purgative and diuretic; in small doses it is used for colds, coughs and bronchitis.

*E. L. (13/44).—NAPHTHALENE AND PHENOL IN HORTICULTURE.*—While both chemicals are used for destroying maggots at plant roots, their method of application is somewhat different. The naphthalene is used in powder form and worked into the soil around the roots, whereas the phenol is generally used in the form of an emulsion made to some such formula as the following:—

Phenol .. .. .	1 gallon
Soft soap .. .. .	8 ounces
Water .. .. .	50 gallons

The following formula contains both cresylic acid and naphthalene, and it is not impossible that a powder could be marketed consisting of naphthalene with carbolic acid powder in correct proportions for making up into a wash with the soft soap and water, but whether this has been done we cannot say. The formula is:—

Soft soap .. .. .	8 pounds
Cresylic acid .. .. .	1 gallon
Naphthalene .. .. .	1 pound
Water .. .. .	98 gallons

*H. R. C. (13/44).—CLEANING PEWTER.*—Pewter which has been neglected requires a good deal of labour expended upon it to restore it. As a rule, machine methods are considered best for this purpose. If your customer does not wish to send away the article, however, a soap containing a fine insoluble powder can be used, and when the surface is clean the polish can be heightened by the use of oil and rottenstone.

*G. & K. (13/5).—MOTH POWDERS.*—Formulas for moth powders vary considerably, and we are not familiar with the composition of the proprietary powder you mention. Formulas for two widely different moth powders are as follows:—

I	
Patchouli leaves .. .. .	10 oz.
Valerian root .. .. .	5 oz.
Camphor .. .. .	4 oz.
Orris root .. .. .	5 oz.
Sumbul root .. .. .	5 oz.
Oil of patchouli .. .. .	½ dr.
Otto of rose .. .. .	½ dr.

Coarsely powder the solids, mix, and add the oils.

II	
Camphor .. .. .	2½ oz.
Insect powder .. .. .	2½ oz.
Naphthalene .. .. .	1 oz.
Phenol .. .. .	½ oz.

Mix all together, the solids being in coarse powder, and pack in canisters. Recent experiments indicate that paradichlorbenze is one of the most effective agents for exterminating moths, provided that this chemical is properly employed and that the temperature of the room is kept above 70° F. Two or three pounds of crystals are used for an armchair and proportionate quantities for other articles.

The moth tablet may be made as follows:—

Cedar dust .. .. .	1 oz.
Camphor .. .. .	1 oz.
Cassia powder .. .. .	1 oz.
Orris powder .. .. .	1 oz.
Oil of lemon .. .. .	10 m.
Powdered myrrh .. .. .	2 dr.
Powdered curd soap .. .. .	2 dr.

Mix, adding sufficient alcohol to mass, and press into cakes.

*A. M. (13/14).—MEDICATED WINE.*—In law there is no exemption for the sale of medicated wines, though the Commissioners of Customs and Excise do not insist on a licence if the wines satisfy two conditions—(1) they must be sufficiently medicated not to be capable of use as a beverage; (2) the label must contain directions for the dose, etc. See *C. & D. Diary*, 1938.

## Retrospect of Fifty Years Ago

Reprinted from  
"The Chemist and Druggist," May 19, 1888

### The Pharmaceutical Week

The forty-seventh annual meeting of the Pharmaceutical Society of Great Britain was not one to be proud of. The attendance of members was much smaller than usual, and the criticisms of the action of the Council were, as a rule, worse than valueless. Some of them fully justified the sharp rejoinder with which Mr. Carteighe enlivened the proceedings. . . . The election has been something of a surprise. The far north of England is to be congratulated on the abundant representation which it will in future enjoy; but it is in some respects unfortunate that Scotland should have failed to secure the second member on the Council, which a few years ago was looked upon almost as a prescriptive right. . . . Of the festal proceedings of the week little need be said here. It was anticipated that the attractions of the new hall and laboratories, which have cost the Council so much thought and anxiety, would have sufficed to balance the absence of that female beauty for which past conversazioni have been famous; but this base hope was destined to be remorselessly crushed. Pharmacists were so generally faithful to the fair that the latter not being included in the invitation nine out of ten of the *habitués* declined the Council's invitation. The dinner was well attended, and the guests included fair samples of the top row in the medical and scientific worlds. The most interesting, as it was also the only novel, feature of the festivity was the toast to the Pharmaceutical Society of Ireland, responded to by its president, Mr. J. E. Brunker, M.A.



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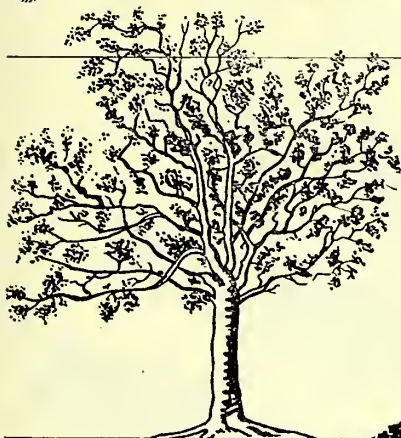
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HUMAN & VETERINARY  
MADE IN ENGLAND

**Write for Special Quantity Terms**

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## Tablets and Pills

**Packed or  
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**ASPIRIN**

**CASCARA**

and all

**TABLETS and PILLS**

Latest Automatic Pill Plant  
producing over 300,000  
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Private formulae Pills and  
Tablets carefully and ac-  
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**Dr. J. Collis Browne's Chlorodyne**  
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**The Pharmacy and Poisons Act, 1933**

**Dr. J. Collis Browne's**  
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**SALE RESTRICTED TO REGISTERED CHEMISTS**

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**J. T. DAVENPORT LTD.**



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**A**  
**Few**  
**Inches of your Counter**  
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Given 6 in. x 4 in. of the serving counter the vigorously advertised ERA Moth Cartridges quickly earn pounds. Retail 3d. each, in colourful display boxes of 24 (as illustrated), 24/- per gross; also attractive boxes of 4, retail 1/-, 8/- per dozen.

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Makers also of Viper, Flysac, etc., Flycatchers

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Register to keep the  
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Price **3/-**

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is

*always*  
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The need for Phosferine continues throughout the year—grows in fact, day by day, because of the increasing strain of modern life.



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## MARTINDALE SERVICE TO PHARMACISTS

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# THE BEST PRESENT WE CAN GIVE YOU *is a* **NEW CUSTOMER!**



*These new  
Spring  
Displays  
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NOW READY*



'ASPRO' newspaper advertising continues on the same vast scale, winter and summer. 'ASPRO' broadsheets reach every house in every town of the British Isles. 'ASPRO' displays are available for every pharmacist in the land.

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'ASPRO' displays make every inch of window-space they occupy pay thousands per cent in sales because they bring into your shop members of the vast 'ASPRO'-using public, potential customers for your other lines as well. Remember—

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*It sells all the time!*

**'ASPRO'**  
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'ASPRO' consists of the purest Acetyl-salicylic Acid that has ever been known to medical Science, and its claims are based on its superiority.

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TABLETS

A  
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**Relieve all pain at all times**

You can recommend PAINEX Tablets with confidence for the relief of HEADACHE, NEURALGIA, TOOTHACHE, NERVE PAINS, RHEUMATISM, NEURITIS, etc., and for the relief of feverish condition in Chills, Colds and Influenza.

Painex Tablets may be safely given to children, and are invaluable to women who suffer from headache and nerve pains.

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TRADE PRICES: 10/- per doz.; 9/6 per doz. for 3 doz. Packed 6 cartons in attractive 3-colour Display Outer. Medical literature on request.

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**THE PREMIER OIL  
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A Safe line  
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**SUGAR  
GLUCOSE  
LEMON  
HALIBUT LIVER OIL**

**GUARANTEE.** We guarantee the purity of every Halibar we make. Only the **FINEST QUALITY HALIBUT** Liver Oil is used and every fresh consignment is tested for purity and vitamin content before use. **PURE** (not synthetic) lemon juice, sugar and glucose only are ever used in Halibars.  
J. BOTTOMLEY & SONS LTD., Keighley, Yorks

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VICTORIA PARK WORKS, KEIGHLEY



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*— something effective  
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The answer in such a case is 'Dettolin.' For all its high germicidal efficiency, 'Dettolin' is distinctly pleasant to use in the mouth or throat. 'Dettolin' contains among other ingredients the active germicidal principle of 'Dettol'—the modern antiseptic. It is ruthless to the germs that breed in the mouth and throat, but soothing and gentle on sensitive membranes.

*'Dettolin' is packed in attractive bottles. Price 9d. and 1/3*

**FORMULA:** Dimethyl Chlor Phenyl Hydrate 1.02%, Menthol 0.12%, Sopo Vegetalis 0.5%, Tinct. Rosae Aromatica 64.9%, Elixir Glusidi B.P.C. 6.0%, Aqua d.st. ad. 100 vols.



## 'DETTOLIN'

BRAND

### Gargle and Mouthwash

RECKITT & SONS, LTD. (PHARMACEUTICAL DEPT.) HULL.  
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When someone is sick, you can always confidently recommend Brand's Essence and be sure it will do good. Brand's gives strength, and stimulates appetite and digestion. It quickens recovery from illness and lessens the risk of dangerous developments. It is so palatable that patients take it readily even when they are so ill that the very thought of food is nauseating.

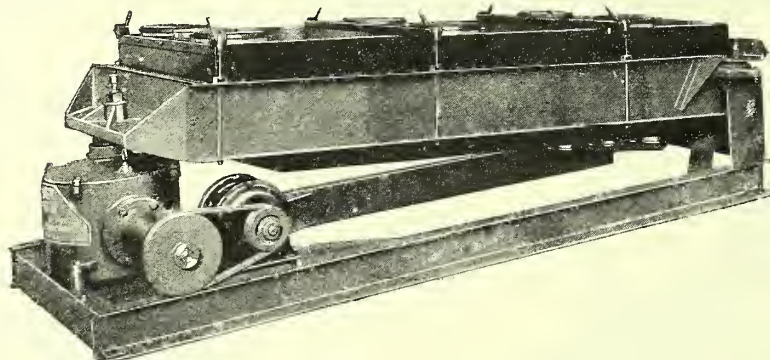
You can safely recommend Brand's in every kind of disorder and in even the most serious illness, because it puts no demands whatever on the digestive system, does not cause thirst in fever, and contains nothing that can possibly cause harm even in cases of gastric ulcer or kidney trouble when so many meat preparations must not be given.

Get your fair share of the rising sales of Brand's Essence by keeping good Brand's displays in your window and shop and being well informed about what Brand's Essence does. A booklet giving a full scientific explanation of Brand's Essence is gladly sent if requested.

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These are just a few of the materials that are NOW being screened successfully on a LOCKER-ROTEX screener:

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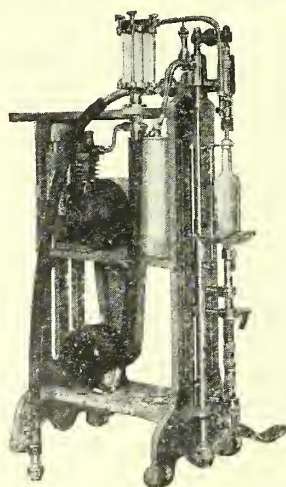
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**"LEO" VACUUM FILLER**



for Glass, Stone,  
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Fills all sizes from  
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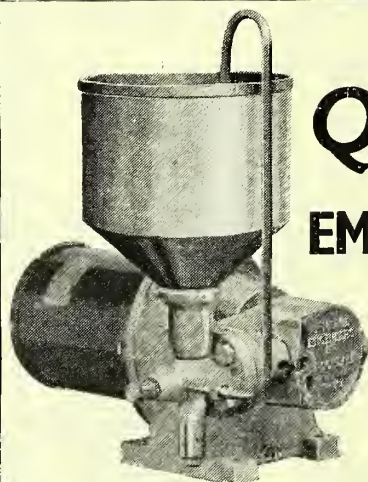
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This machine operates on exactly the same principle as our well-known laboratory model, and will give as satisfactory results. A relief valve is incorporated by which the pressure can be varied up to a maximum of 350 lbs.

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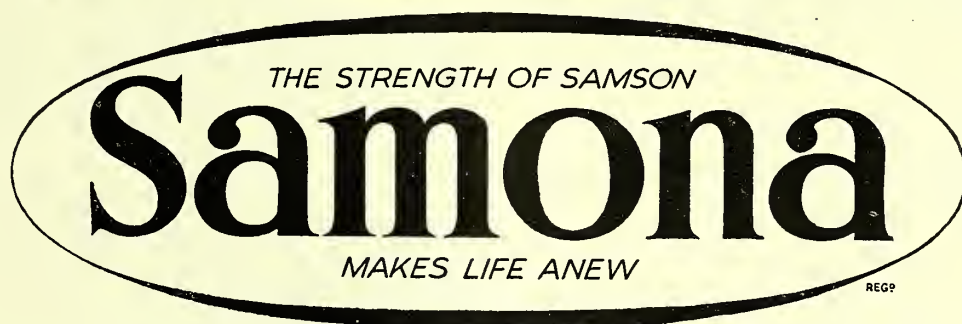
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**From all  
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**MASON'S EXTRACT OF HERBS  
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We can offer quotations for...

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TABLETS • JARS**

(Screw Cap or other closures)

\* SPECIAL DESIGNS PREPARED FOR PROPRIETARY PACKS

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FOR OVER 80 YEARS WE HAVE BEEN MAKING  
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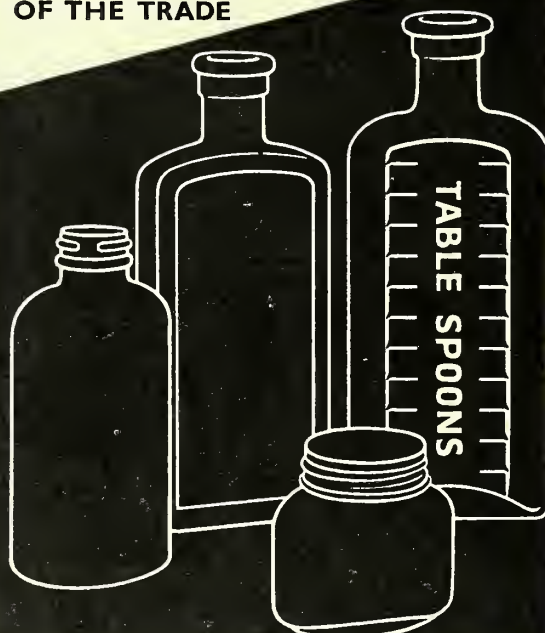
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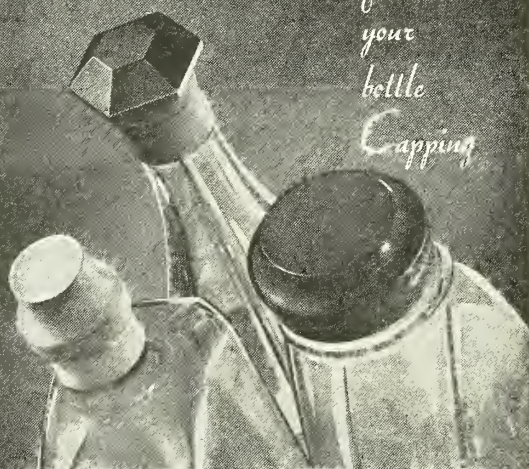
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WHITE FLINT • MACHINE MADE  
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Carriage Paid in 5 gross lots within 100 miles  
Packages Free

**SAXTON GLYNNE BOTTLE CO. LTD.**  
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TAPER  CORKS

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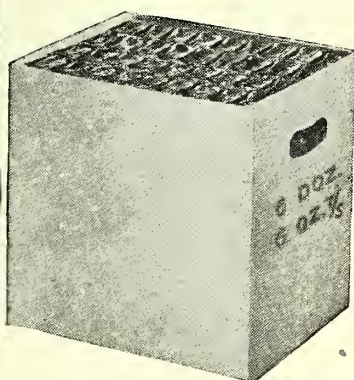
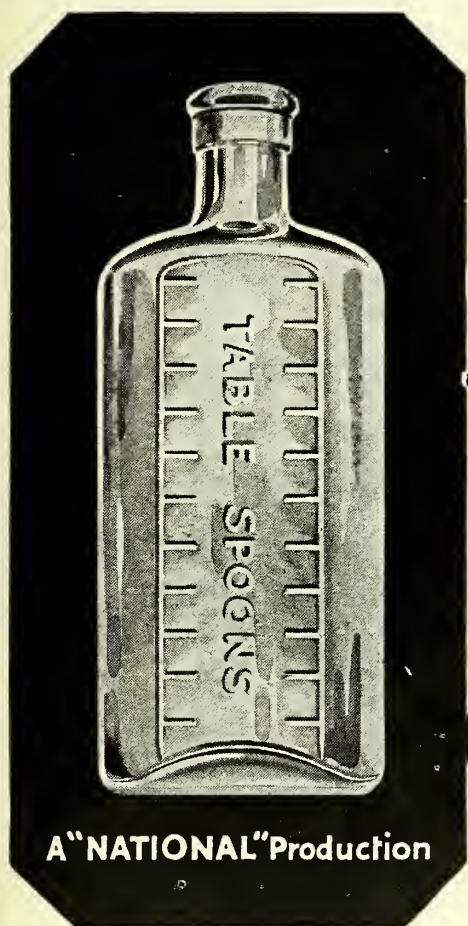
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HAVE YOU GOOD STOCKS OF  
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Ranging in size  $\frac{1}{2}$  oz. up to 3 oz.  
Plain or teaspoon graduations  
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MANUFACTURED IN BEST QUALITY  
WHITE FLINT, AND PACKED IN FREE  
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**NATIONAL GLASS WORKS (YORK) LTD.**

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(WHOLESALE ONLY)

WORKS:  
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You know—  
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that the name MORFI is a guaranty of a high standard of quality and reliability—the outcome of years of continual research and improvement. MORFI TRANSPARENT Products can be sold and purchased with mutual confidence, and show the retailer a very substantial margin of profit.

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# The CHEMIST AND DRUGGIST SUPPLEMENT

This Supplement is inserted in every copy of The Chemist & Druggist

MAY 21, 1938

28 ESSEX STREET, LONDON, W.C.2

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56 LUDGATE HILL, E.C.4

ESTABLISHED 1846

Telephone Nos.: CITY 2283 & 7477

May be CONSULTED at their Offices on MATTERS of SALE, PURCHASE & VALUATION

We make no charge to purchasers, and invite intending buyers to communicate with us, stating their requirements

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- 2.—FINSBURY PARK (NEAR).—General Retail Business with excellent Panel; established 1870; turnover last year £1,564; net profit £380; certified figures; heavy stock; excellent living accommodation; rent only £70 per annum; inclusive purchase price required £850 all at, or near offer; Vendor buying another business.
- 3.—READING.—Owing to the decease of Mr. Herbert Dyson, his good-class General Retail Business is for immediate disposal; turnover about £2,700 per annum; full particulars upon application; Sole Agents.
- 4.—SUBURBAN CHEMISTS, LTD., Loughton, Essex (In Voluntary Liquidation).—Good-class Business; present turnover nearly £50 per week; stock and fixtures worth about £1,400; living accommodation over, at present sublet; offers invited for business and freehold; full details upon application.
- 5.—STROUD GREEN (DEATH VACANCY).—Much-neglected, General Retail Business; takings about £16 per week, have been £40 per week; good profits; stock and fixtures worth about £375; living accommodation; low rental; inclusive price £450.
- 6.—GOLDERS GREEN (NEAR).—High-class Retail and Dispensing Business; takings approximately £2,800 last year; net profit £700 per annum; good, clean stock worth about £600; rent after allowing for sublet £110 per annum; long lease; offers invited; Vendor going into Medical.
- 7.—STREATHAM.—Main Road High-class Retail Business; takings £60 per week; rent £250 per annum; valuable stock and fixtures; splendid site; inclusive purchase price required £1,250 or near offer.
- 8.—EARLS COURT (NEAR).—High-class Dispensing Business; takings £40-£50 per week under management; profit rental; long lease; heavy stock; inclusive purchase price required about £2,000 or valuation terms entertained; stock and fixtures worth £1,200. Offers invited.
- 9.—ELEPHANT AND CASTLE (NEAR).—Old-established Business taking £35 per week under management; reasonable rental; stock worth nearly £400; inclusive purchase price £500, or near offer.
- 10.—HARROW (NEAR).—Middle-class Business recently established; takings present rate £20 per week under management; stock and fixtures estimated by vendors to be worth about £600; modern flat over at present sublet; inclusive sacrifice purchase price £300.
- 11.—HARROW.—Mrs. Breingan is desirous of disposing of her late husband's business forthwith; turnover average over £40 per week under management; Arden Agency; stock and fixtures worth about £1,000; no reasonable offer refused; two flats over.
- 12.—LONDON, S.E.—Main-road Cash Retail Business taking over £4,000 per annum; valuable stock and fixtures; new lease; price required for the goodwill £700, or near offer; full particulars upon application; part payment terms might be considered.
- 13.—FOREST HILL, (DEATH VACANCY).—Cash Retail Business for immediate disposal; turnover over £1,300 per annum; scope; leasehold premises also for sale; ground rents £10 per annum; lease 36 years unexpired; stock and fixtures worth about £375; inclusive purchase price of business and property £950, or offer; a lease might be granted. Offers invited.
- 14.—ALDGATE (NEAR).—Main road General Cash Retail Business with heavy Panel connexion; takings last year £3,368, included over £500 from Panel; gross profit £1,358; net profit about £800; inclusive purchase price required £1,950, or valuation terms entertained.
- 15.—DEVONSHIRE.—Village Business; mixed trade; turnover exceeds £1,600 per annum; valuable stock and fixtures; good living accommodation; rent only £28 per annum; inclusive purchase price £550.
- 16.—BERKSHIRE.—Country Retail Business; nearest opposition 8 miles; net profit about £7 per week; excellent living accommodation; beautiful garden, lawn, fruit trees; rent £48 per annum; accountant's figures available; price required £650.
- 17.—BLACKPOOL.—Family Retail Business; takings last year approximately £800; stock and fixtures worth about £400; rent £65 per annum; inclusive total purchase price £400.
- 18.—FRINTON (NEAR).—Light Retail Business in present hands 33 years; net profit £600 per annum; stock £1050; fixtures £285; splendid living accommodation; property can be purchased for £1,100 or rented for £100 per annum; offers are invited.
- 19.—NOTTS.—Middle-class Retail Business; takings last year £845; stock and fixtures worth £250; nice living accommodation; rent £50 per annum; price asked for the lease and goodwill £50, or a lump sum offer would receive consideration.
- 20.—SLOUGH.—Branch Business for immediate disposal; middle-class; established 10 years; takings approach £1,100 per annum; excellent profits; stock and fixtures worth nearly £250; inclusive rental only £1 per week; minimum purchase price required £325.
- 21.—HUDDERSFIELD (NEAR).—Light Retail Business with N.H.I. £230 per annum; turnover last year £836; net profit £260; inclusive purchase price required £500; rent only £35 per annum.
- 22.—BIRMINGHAM.—For immediate disposal at bargain price; Middle-class Cash Retail Business; takings last year £1,390; gross profit £526; new lease at £80 per annum; sublet 15s. per week; stock worth about £300; valuable fixtures; price £500 all at or near offer; excellent opportunity.

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Special Terms for Income Tax Valuations and Preparation of Accounts by Qualified Accountants



# ERNEST J. GEORGE & Co.

Lancashire and District Representative: Mr. E. BROWN, 21 Davenport Road, Hazel Grove, Stockport. Telephone: Great Moor 2405.

(C1) LIVERPOOL.—City business, with steadily increasing turnover; returns for 1937, £2,510; this year is expected to reach £3,000; net rent £90 only; excellent position near to leading multiples; price £1,250, including stock £600; valuation terms if preferred; **part can remain.**

(C2) EWELL (NEAR).—Attractive main-road business occupying prominent position in middle-class, residential suburb, near to leading multiples; turnover for 1936-37, £2,847; gross profit £1,080; net profit to Owner-Proprietor £600-£700; rent £220, including up-to-date flat; lease 17 years; price £1,300, plus stock at valuation (estimated at £480).

(C3) KENT (SMALL TOWN).—Modern Pharmacy occupying main-road position; good living accommodation; rapidly increasing turnover, which for 1937-38 amounted to £1,750; net profit £450-£500; excellent scope; no near opposition; stock and fixtures estimated at £900; price all-at £1,000; property also could be purchased if desired, or lease will be granted at a rental of £91 per annum, plus rates about £17.

(C4) CHELSEA.—Branch business (lock-up) with increasing turnover now at the rate of approximately £1,500 per annum; main road position; no Sunday duty; rent £90; stock and fixtures estimated at £750; price £850, or near offer.

(C5) LIVERPOOL.—Branch business, established over 60 years; turnover approximately £1,500 per annum; rent £65; good scope; price £550-£600 according to value of stock, **part of which could remain.**

(C6) KENTON (NEAR).—Steadily increasing business situated in growing residential district; no near opposition; sub-post office producing good income; two flats at present sub-let; excellent scope; now doing upwards of £1,500 per annum, exclusive of Post Office remuneration; price £1,100 or near offer.

(C7) LONDON, S.W.—Lock-up Pharmacy, with extensive display windows, occupying prominent position; scope and opportunities for substantial development, as the business, which is of fairly recent establishment, has not up to the present been fully exploited; turnover for 1937 financial year, £1,785; gross profit £743; genuine reason for selling; price £1,250 or nearest reasonable offer, **£500 of which can remain for payment over a period of five years.**

(C8) LONDON NORTH (OUTER SUBURB).—High-class Pharmacy occupying main road position; turnover for 1937-38, £2,290; gross profit approximately 36 per cent.; excellent living accommodation; rent £120; reasonable purchase price (by negotiation).

(C9) DALSTON (NEAR).—Main-road business (lock up) for immediate sale; turnover for 1937, £2,034; net profit £487; rent £120; price approximately £600, including stock £300; exceptional opportunity; and immediate application advised.

**Bank Chambers, 329 High Holborn, London,**  
Telephone Nos.: Holborn 7406 & 7407 (2 lines) **W.C.1**  
**County Bldgs., Bridge St., Walsall** Telephone: Walsall 3774

(C10) KINGSTON-ON-THAMES.—Prominently situated, with no near opposition; spacious and attractive Pharmacy and good flat above; turnover for 1936-37, £2,339; immediate sale desired, and offers invited; valuation terms accepted.

(C11) NEW ELTHAM (NEAR).—Middle-class, with up-to-date house, including three bedrooms; turnover for 1936-37, £2,333; gross profit £865; net £556; rent £120; lease 21 years; growing district; price £1,250, or near offer.

(C12) ELSTREE.—Well-established business must be sold forthwith, and first reasonable offer accepted; turnover for last financial year, £2,745; now averaging at the rate of approximately £42 per week, and steadily increasing; flat available, if required, or 21-year lease will be granted on Pharmacy, etc., only, at a rental of £100 per annum; very low price accepted for quick sale.

(C13) ESSEX.—Well-positioned main road Pharmacy, showing steadily increasing returns; turnover for 1937 financial year, £2,243; should reach £50 per week in the near future; price £1,650 or near offer.

(C14) BIRMINGHAM.—Branch business in industrial area, capable of considerable increase under personal proprietorship; turnover upwards of £1,200 per annum; gross profit about 40 per cent.; rent £37; price all-at £500.

(C15) FOREST HILL (DEATH VACANCY).—Established business, in late hands approximately 26 years; turnover 1936-37, £1,302, including N.H.I., £348; leasehold property with about 26 years unexpired, can be purchased, or underlease can probably be arranged, at a reasonable rental; excellent scope; low price for quick sale, which is desired in order that the estate can be closed; further particulars upon application.

(C16) SHROPSHIRE (CHARMING COUNTRY TOWN).—Old-established business in good position; turnover small at present (approximately £1,050 per annum) but capable of considerable increase; living accommodation; property can be purchased, or leased at £80 per annum; stock estimated at £600-£700; fixtures £200-£300; price by negotiation.

(C17) SOUTH LONDON.—Rapidly increasing business, occupying prominent position; good living accommodation; turnover approximately £2,100 per annum; rent entirely covered by post office remuneration; excellent scope and opportunities for further development; price £1,600 or reasonably near offer. Owner would consider partnership arrangement if preferred.

(C18) BOURNEMOUTH.—Cash Business, very easily conducted; turnover for 1937, £1,264; net profit, £317; good living accommodation with garage; rent £110; rates £20; price £850; including stock £300 and fixtures, which cost initially £500.

**Valuations for transfer, probate, income tax, etc., promptly executed at economical rates.**

## BERDOE & FISH

CHEMISTS' VALUERS AND TRANSFER AGENTS,

41 Argyle Square, KING'S CROSS, W.C.1

(One minute from St. Pancras and King's Cross Stations.)

1.—SOUTH COAST.—Good-class Family and Dispensing Business, with Photographic; returns £1,800 under management; rent £150; large Shop, good living accommodation; heavily stocked; price £1,500 or £350 plus stock and fixtures at valuation.

2.—BLACKPOOL.—Well-established light cash Retail, in splendid position; turnover averages £1,850; good profits; books audited; stock and fixtures worth £700; price £900 for early sale; owner entering wholesale.

3.—NORTH-MIDLANDS.—Sound light Retail, in busy market town; easily run; returns £1,550; net profit £330; stock and fixtures worth £650; price £850.

4.—HOME COUNTY.—Good-class Business, in busy town; main-road position; returns over £1,400; scope for increase; modern Pharmacy, fully stocked; price £925 or near offer.

5.—CHESHIRE.—Newly-established business, in residential district; returns over £18 weekly, increasing; modern pharmacy, with good house; rent £65; illness compels sale; price £485 or valuation.

6.—SUFFOLK.—Good-class Business, in pleasant seaside resort; returns over £1,300, increasing; good profits; excellent house and garden; price £700 or near offer.

7.—CANONBURY (NEAR).—Light Cash Retail with good Panel; returns approach £2,000, net profit £450; smart double-fronted shop, fully stocked; price £950 or close offer.

8.—HACKNEY (NEAR).—Well-established Business in main-road position; turnover exceeds £2,000, gross profit 35 per cent.; books audited; modern Pharmacy; stock worth £300-£400; owner, for quick sale, will accept £300, plus stock at valuation.

9.—LONDON, W.—Old-established Family Retail Business; very profitable; returns nearly £1,100; low overheads; valuable lease; owner retiring; price £525; worth attention.

10.—ST. PANCRAS (NEAR).—Profitable Cash Retail, with N.H.I.; no immediate opposition; returns over £1,100, net profit £350; audited figures; price only £350 or near offer.

### BUSINESSES WANTED

We have a large number of genuine Cash Buyers seeking sound concerns showing from £500 to £800 net profit yearly, and intending vendors desirous of a quick sale, without any publicity, should communicate with us at once.

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## THE ASSOCIATION OF MANUFACTURING CHEMISTS, LIMITED

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Holborn Viaduct, LONDON, E.C.1 2 Bixteth St., LIVERPOOL.

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VALUATIONS. SALES OF BUSINESSES. STOCKTAKINGS.

Enquiries Invited.

## BUSINESSES FOR DISPOSAL

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

**B**BLACKPOOL.—Family Retail business; returns over £2,000, scope for increase. Full particulars on application. Apply 180/37, Office of this Paper.

**B**OURNEMOUTH.—Main road position (see article, page 391, "Hairdressers' Journal," January 29); exceptional opportunity for Qualified Chemist. At present Tobacconist and Hairdressers; suggest substituting Chemists for tobacco; no opposition; profits from Hairdressing more than cover rent of premises, which have two flats above. To those with small capital accommodation if required, interested and wanting proof, write or call (Sunday no objection), Owner, 12 Carbery Row, Southbourne Road, Bournemouth. A light Irving Road bus stop. Telephone: Southbourne 1231.

**L**ONDON, S.E.—Drug Store for sale; returns £15 per week; stock £100; rent and rates £100 per annum; long lease; living accommodation; working-class district; suit Qualified or Unqualified; owner leaving trade; for quick sale, will take £120 (all at). 180/30, Office of this Paper.

**L**ONDON, S.W.—Drug Stores, excellent position for Chemist; lease 11 years to run; rent £100 per annum; increasing trade; splendid opportunity; inquiries invited. 326/850, Office of this Paper.

**M**ORECAMBE, W.E.—Drug Store, established 40 years, for Sale; busy main road; well fitted and stocked; good chance to commence summer season; stock and fixtures valued at £500; no goodwill; £400 all at. Apply, 10 Regent Road, Morecambe.



**NORTH LONDON.**—£275 or near offer secures a sound, old-established Drug Stores, situated in thickly populated district; present returns average £15 weekly; excellent opening for N.H.I.; nicely fitted shop, with living accommodation; stock worth £125; suit beginner or a lady Chemist. Apply "Genuine," 326/856, Office of this Paper.

**SOUTHPORT.**—Chemist's Business for disposal; excellent position between station and promenade; lock-up; average turnover £35 per week; vast scope for increase under personal supervision; Kodak Agency; £100 plus valuation of stock and fixtures; this business is being offered at this reasonable figure for quick sale. Further particulars from E. B. Griffiths & Co., Accountants, 152/154 Lord Street, Southport.

**SOUTHERN** Counties, within 100 miles of London; owing to the death of principal shareholder, an excellent opportunity is offered for the acquisition of an interest in, and ultimate management of a company comprising four businesses, all good going concerns. Apply, stating capital available, in first instance to P.C.B. 283/2, Office of this Paper.

**S. YORKS.**—Old-established suburban business; present owner-ship 26 years; corner shop, with living accommodation; rent £65; neglected owing to ill health; previously doing over £1,000; stock and fixtures at valuation for quick sale. 180/32, Office of this Paper.

**WEST END** Business for Sale; good prices; old established. 180/14, Office of this Paper.

**CHEMIST'S** Business for sale in Edinburgh; turnover £1,200 per annum, increasing; on main road in rapidly developing district; attractive and well-fitted shop and commodious back premises. Particulars from Charles H. Burrows, C.A., 16 Picardy Place, Edinburgh.

**DRUGS, Herbs and Surgical;** newly established; net profits already £3 weekly; West London suburb; main road; lock-up; rent £65 inclusive, or with flat, redecorated, 4 rooms, bath, rent £59 inclusive; Prescribing trade, showing increase; large stock; price £150 all at or offer; owner going abroad; principals only. 181/26, Office of this Paper.

**FOR** quick Sale owing to ill-health of Proprietor; lock-up Drug and Surgical Store; established 5 years; weekly turnover averages £10, could be greatly increased under Qualified management; good position and very low rental; fairly fitted and stocked; price asked £150 or near offer. Further particulars on request. 181/20, Office of this Paper.

**ILL** Health compels immediate sale of business in Birmingham; industrial area; turnover average £30 weekly; full wine licence; rent £50; stock and fixtures at valuation about £600; very reasonable goodwill. 326/849, Office of this Paper.

**LIGHT** Retail, lock-up shop with garage; established 15 years; takings, 3 years' average, £1,157; has done over £2,000; owing to ill health, neglected; exceptionally well fitted, clean, saleable stock about £500; cash trade; main road position; developing S.W. suburb; rent £150; price all at £1,200; no agents. 173/6, Office of this Paper.

**LONG-ESTABLISHED** Business for sale in residential London area at a sacrifice (less than value of stock and fixtures); unique opportunity for Chemist to acquire a profitable business, as present owner must sell. 181/27, Office of this Paper.

**OLD-ESTABLISHED** Mixed Retail Business, country; good opportunity for Qualified man with knowledge of Cattle Medicines and Photography. "Country," 175/1, Office of this Paper.

**OPPORTUNITY** occurs to take over an established Pharmacy; 300-400 N.H.I. monthly; turnover £1,400 per annum; rent £100; rates £19; healthy district; accommodation good and space for garage; easy access City; £600, all at. Apply in first instance Westwood, Westheath Road, Abbey Wood, S.E.

**SMALL** Manufacturing Drug Business for Sale; scope for tremendous increase; spacious premises at low rent; long lease could be arranged; price includes stock, fittings, plant and motor van; competent staff would remain. Inquiries invited. 180/40, Office of this Paper.

**UPTO-DATE** Pharmacy for sale in West Riding; sole Chemist and Photographic Agent in district; Wine Licence; some Optics; very low overhead charges; audited accounts show gross profit over £600 per annum; modern house attached; property for sale; owner purchasing larger business. 173/2, Office of this Paper.

## BUSINESSES WANTED

6s. for 50 words or less ; 6d. for every additional 10 words or less, prepaid. (Box No., ls. extra.)

**YORKSHIRE,** West Riding, business required immediately, preferably Leeds or Bradford area; turnover £35-£40 weekly; cash waiting. Please write in first instance to Ernest J. George & Co., 329 High Holborn, W.C.1. All correspondence treated in strict confidence.

**WANTED** immediately by private Chemist, a sound good-class business; outside London and preferably within a fifty-mile radius; minimum turnover £3,000 per annum; must bear strict investigation; ample capital available; references exchanged; all replies will be treated in strict confidence. Apply "Script," 326/857, Office of this Paper.

**WELL-ESTABLISHED** Chemist Business wanted in Leeds, Bradford, or districts; *bona fide* private purchaser; capital available. Apply 180/21, Office of this Paper.

## PREMISES TO LET

EARLS COURT, S.W.5.

**SMART** Parade of Shop Premises in main road; multiples already in possession; rentals from £85 to £175 per annum. Herring, Son & Daw, 100c Queen Victoria Street, E.C.4. Tel.: City 7068/69/60.

**HOVE, SUSSEX.**—Fine modern lock-up Shop available in Parade facing large new residential estate; excellent scope; an agreement or lease would be granted at very nominal rent of £60 yearly. Keys with the Managing Agents, H. Francis & Co., Property Agents, "Station Parade," 92 Goldstone Villas, Hove, 3 (phone: Hove 3075).

**N.W. LONDON.**—Excellent Shops in commanding position, serving densely populated district; several multiples already in possession. Herring, Son & Daw, 100c Queen Victoria Street, E.C.4. Tel.: City 7068/69/60, or Letting Office on premises—Primrose 4320.

**NOTTINGHAM.**—Lock-up Salesshop, with offices or storerooms over, to let in important suburb; Chemist's business carried on for many years; splendid position, in heart of shopping area and close proximity to many leading multiple traders; fixtures and stock at valuation; rent £175 per annum. Harlow, 14 Lower Parliament Street, Nottingham.

**CHEMIST URGENTLY WANTED.**—Magnificent parade of modern Shops and upper parts in S.E. London; front, etc., ready for use; 8,000 houses serviced by this parade; further development rapidly taking place; many active traders already well established; special terms to assist immediate opening. Write, Owner, 179/9, Office of this Paper.

**WONDERFUL OPPORTUNITY** for progressive man with limited capital to start his own business. PHILIP JOSEPHS & SONS, LTD., have an option on ten sites in blocks of buildings with most of the other shops taken by large Multiple Stores and having splendid prospects for the opening of a new Pharmacy. These can be rented COMPLETE WITH SHOPFRONT, INTERIOR FITTINGS, ROUNDS, SCALES, etc., to Tenant's own design and to value of FOUR HUNDRED POUNDS, together with flat over, at a figure of from £250 per annum. There is no premium required, and no capital repayments. Only the Stock is needed. Write or call PHILIP JOSEPHS & SONS, Ltd., 90/92, St. John Street, Clerkenwell, LONDON, E.C.1. Telephone Clerkenwell 4111/2. Pharmacy Fitters for over a century.

## DIRECTORSHIPS

**YOUNG** Man offered position as Sales Director and London Wholesale Representative under agreement by progressive, established private company marketing own branded products, and Sales Agents for well-known firms; salary £250 and commission; investment required, £500 in shares (secured); exceptional prospects for right man. Write fully, 181/19, Office of this Paper.



## SALES BY AUCTION

Removed for Convenience of Sale to the Auction Rooms,  
5 LITTLE BRITAIN (close to G.P.O.), CITY.

CHEMIST'S SHOP FITTINGS, Drug Run, Wall Show-cases, Glass Counters, Silent Salesmen, Mirrors, National Cash Register, Display Stands, Glass Shelves, Office Furniture, Safes, Typewriters, etc.

### B. NORMAN & SON

will sell by auction, WEDNESDAY NEXT, May 25, 1938, at 12 o'clock. On View Day Prior. Catalogues on application. Tel. NAT. 6463.

## AGENCIES

**A** GENT wanted by important Firm manufacturing Insect Powders and Veterinary Preparations, for Lancashire, Yorkshire and Cheshire; excellent opportunity for right man. Reply, stating other agencies carried. 179/20, Office of this Paper.

**M**EDICAL PROPAGANDA.—Advertiser, well known to Practitioners in chief centres of England, Scotland and Ireland, has introduced many Ethical Products by personal contact, desires Sole Agency or Special Representation for an Original Product, British or Continental, or would negotiate purchase of trade rights; correspondence invited. Apply E/N/A, 180/28, Office of this Paper.

## BUSINESS OPPORTUNITIES

**C**ONTINENTAL Firm of repute desires financial co-operation with British firm of Pharmaceutical Manufacturers, with a view to developing British and Dominion business. Principals only. Box 9410, General Advertising Co., 44 Chancery Lane, London, W.C.2.

## COMPANY REGISTRATION

**I** DO not know what to add to what I have been saying consistently in this space for more than 25 years about the advantages of trading on safety lines as a Private Limited Company of two or more persons. If this interests you, please write for my inclusive quotation and full particulars.

A. B. SLACK,

721 PRINCESS ROAD, MANCHESTER, 20.

## APPOINTMENTS

### METROPOLITAN BOROUGH OF FINSBURY.

**A** PPLICATIONS are invited for the appointment of a Qualified Female Dispenser in the Council's Maternity and Child Welfare Centres. The person appointed will be required to be in attendance for approximately 2½ hours each week-day afternoon (except Saturday) and payment will be at the rate of 7s. 6d. per session.

Married women are ineligible.

Applications on forms obtainable by personal application to this office, or by sending a stamped addressed foolscap envelope, must be received not later than MONDAY, 30th May, 1938.

Canvassing, directly or indirectly, will disqualify.

Finsbury Town Hall, J. E. ARNOLD JAMES,  
Rosebery Avenue, E.C.1. Town Clerk.  
10th May, 1938.

## SITUATIONS OPEN

### RETAIL (HOME)

6s. for 40 words or less ; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

**B**IRMINGHAM.—Hedges (Chemists), Ltd., have vacancies for two or three good Juniors. Apply, with full particulars, to Managing Director, 10-12 Dale End, Birmingham.

**B**RISTOL.—Wanted immediately, Qualified Chemist; apply, stating full particulars in first letter of experience, age and salary required; permanency required; forward copies of references, also photograph if possible. Joy's Chemists, Ltd., 3 Birchwood Road, St. Anne's Park, Bristol, 4.

**D**OUGLAS, ISLE OF MAN.—Wanted for small Pharmacy from June 6 to October 1, Unqualified Assistant (20-25); one used to Retail Photography and Dispensing; must be trustworthy. State salary and send photo if possible, Houghton, Chemist, Melbourne Street, Douglas.

**D**URHAM COUNTY HOSPITAL (100 beds).—Locum Pharmacist required for two weeks, August 20 to September 3, inclusive; four guineas per week; applications to the undersigned not later than June 15, with particulars of experience and with testimonial. Norman Brown, Secretary.

**F**INCHLEY, N.2.—Qualified Dispenser required for small Pharmacy; light duties, comfortable and permanent berth; knowledge of Toilets and Photographic desirable. Please state age, experience and salary required (which must be strictly moderate), to M. E. Thacker, M.P.S., 8 Westbury Avenue, Wood Green, N.22.

**K**ENSINGTON.—Unqualified Assistant or Junior required for high-class Pharmacy where good experience will be obtained. Apply, by letter preferably, to L. B. C., Harrington, 15 Kensington High Street, W.8.

**K**ENT COAST.—Qualified Assistant for summer season; also smart Unqualified lady or gentleman; used to Photographic and Toilet business. Apply with full particulars to S. G. Court, Ltd., Station Road, Birchington.

**L**INCOLNSHIRE.—Wanted, Qualified elderly gentleman as superintendent; light duties; suit semi-retired; permanency. Salary and particulars to 180/16, Office of this Paper.

**L**ONDON.—Assistant (Qualified preferred, but not essential) for three or four months' holiday relief work; medium trade; N.H.I. Dispensing. Give particulars of experience, names of references, when disengaged, age and salary expected. Apply by letter only, Chemist, 300 Amhurst Road, London, N.16.

**L**ONDON.—Qualified Locum required from June 20 to August 13; undeniable references. Write, call or phone, E. A. Parr, 223 High Street, Acton, W.3. Acorn 2728.

**L**ONDON, N.W.10.—Wanted, a Young Lady Assistant, Unqualified, for Counter and Dispensing. Give particulars of age, experience and salary to Davies, 59 Dudden Hill Lane, Willesden, N.W.10.

**L**ONDON, S.E.—Junior and Senior Assistants required from about June to end of September; good Dispensers and Countermen. Apply by letter, giving full particulars, age, height, experience, salary required, to J. W. Rumsey & Son, 535 Lordship Lane, S.E.22.

**L**ONDON, S.E.1.—Qualified Assistant, preferably young, required for May 30; main road; mixed class, with Photography. State age, salary required and experience in first letter. 180/8, Office of this Paper.

**L**ONDON, S.E.14.—Locum, fully Qualified, Lady or Gentleman, for two weeks starting June 11. Apply by letter, stating salary, to Hay, 85 Clifton Rise, New Cross, S.E.14.

**L**ONDON, S.W.15.—Junior Qualified Assistant, male, required at once, for high-class Dispensing business. Full particulars to Mr. Framingham, T. Jones & Co., 5 Putney Hill, S.W.15.



**LONDON, W.**—Qualified Assistant wanted; good Salesman, West End business. Application by letter first, giving full particulars, age, experience, salary, etc., to Hayman & Freeman, 93 Piccadilly, London, W.1.

**LONDON, W.1.**—Qualified Assistant wanted for high-class West End business; good Salesman and good appearance essential. Apply, with full particulars re age, height, experience and salary required, A. B. C., 180/10, Office of this Paper.

**LONDON, W.11.**—Unqualified Junior (male), with good-class Dispensing and Counter experience, required; London preferred; £3. Apply 180/23, Office of this Paper.

**MIDLANDS.**—Qualified Assistant required for Counter and Dispensing (age about 25-35); must be keen and courteous salesman, good Prescriber and reliable. Apply, with full particulars of age, experience, references, salary, to 181/23, Office of this Paper.

**NORTH LONDON.**—Qualified Junior Lady required for beginning of June. Please reply, stating experience, etc., salary required, also photo if possible. 180/11, Office of this Paper.

**SOUTH COAST.**—Good Unqualified Manager for Photographic and Drug Store; present time until last week September; knowledge Photo Apparatus essential. Reference, photo, salary required to 326/865, Office of this Paper.

**A.A.A.**—YOUNG Assistant of good address, male or female, with all-round experience; no Sunday duty. Apply L. Garfield, M.P.S., 5 North Parade, Mollison Way, Edgware (station, Burnt Oak), in writing, or 'phone Edg. 4545.

**A.**—QUALIFIED Lady or Gentleman required to manage small branch business, early in June; must be good Window-dresser and N.H.I. Dispenser; preference given to one requiring permanency; salary and commission. Apply by letter in first instance, C. A. Moore, M.P.S., 350 Eastern Avenue, Ilford.

**A** VACANCY occurs immediately for Young Qualified Pharmacist (male), in W.C. district; enthusiast and willing worker; suit recently qualified. Apply, 179/6, Office of this Paper.

**A** YOUNG Qualified Assistant (male) required; must be of good appearance, good Salesman and well recommended; permanency. Apply, The Manager, Williams (Cash Chemists), Ltd., 14A Argyl Street, Oxford Circus. Personal application preferred.

**A** SSISTANT (either sex), early, for Dispensing Counter and Stock, in good-class Family business; knowledge of Photography. Apply, stating salary, references, and enclosing photo if possible, to Mills, Chemist, Old Town, Eastbourne.

**A** SSISTANT (male), Unqualified, for Dispensing, Counter and Window-dressing, in middle-class Pharmacy; must be trustworthy, reliable and obliging. Please forward usual particulars, age, height, photo and salary required, to L. A. James, 6 Grange Parade, Uxbridge Road, Hayes, Middlesex.

**A** SSISTANT, young gentleman just completed apprenticeship would suit; applicant must be of good address and education, accustomed to high-class business; permanency; week's holiday within five months. Matthews & Son, 25 High Street, Wanstead, Essex.

**A** SSISTANTS, two, Unqualified (male), required until about October; please state age, height, experience, snap if possible, and salary required. Apply B. Fish, "Sevena," Albert Square, Gt. Yarmouth.

## PHOTOGRAPHS, TESTIMONIALS, &c.

When replying to advertisements in this section applicants are strongly advised not to send (unless specially requested) ORIGINAL TESTIMONIALS or VALUABLE PHOTOGRAPHS. Many of these announcements produce an exceptionally large response and, as can be readily understood, the task of returning photographs, testimonials, &c., is one of some difficulty.

**CAPABLE** Junior Assistant wanted for holiday season, to commence immediately. Apply Varley, Chemist, 65 Holmfild Road, Blackpool.

**CHEMIST-OPTICIAN**, fully Qualified, wanted to manage branch shop in country district; must be keen, energetic worker and trustworthy. Applications (in strict confidence) should state full details in first letter. 180/43, Office of this Paper.

**JUNIOR** Assistant (male preferred) required for the season (June to September inclusive); fullest possible particulars should be given in first letter; send photo if possible. Apply Managing Director, W. T. Cole & Son, 106 Saint Mary Street, Weymouth.

**JUNIOR** Qualified Assistant required. Usual particulars, salary required, to Bell, 8 West Halkin Street, Belgrave Square, S.W.1.

**JUNIOR** required, either sex, accustomed Counter, Dispensing, Photography (no D. & P.); until end of September. Usual particulars to Collitt, Chemist, Holland-on-Sea, Clacton, Essex.

**LADY** Assistant, Qualified or Unqualified, required immediately; permanency if suitable; Harrow district. Apply, giving copies of references, particulars of experience, age, salary expected, to 180/45, Office of this Paper.

**LADY** Assistant, Unqualified, with good general experience. Give particulars of age, experience and salary to H. T. Rogers, 182 Stroud Green Road, N.4.

**LIMITED** Company requires several young Qualified Managers; progressive positions for right type, who must be reliable Dispensers and capable Window-dressers; please supply fullest details, including previous experience and salary required, etc. 326/861, Office of this Paper.

**PART-TIME** Qualified Lady or Gentleman wanted for old-established business in North London; young or elderly; quick Dispenser. 181/14, Office of this Paper.

**PHARMACY.**—Female Assistant required; must have had general pharmaceutical and shop experience; widows and single persons only considered. Apply in writing, stating age and experience, to the Staff Manager, Royal Arsenal Co-operative Society, Limited, 113 Powis Street, Woolwich, S.E.18. Endorse envelope "Pharmacy." Note.—Canvassing of members of the General Committee or Officials will disqualify.

**PHARMACY.**—Unqualified male Assistant required for Holiday Relief. Apply in writing, stating age and experience, to the Staff Manager, Royal Arsenal Co-operative Society, Ltd., 113 Powis Street, Woolwich, S.E.18. Endorse envelope "Pharmacy." Note.—Canvassing of members of the General Committee or Officials will disqualify.

**QUALIFIED** Assistant required (age 24-30) for good-class business in South Coast town; must be of good appearance and address and capable Salesman and Window-dresser. State particulars of experience, age, height, salary and photo if possible, 181/9, Office of this Paper.

**QUALIFIED** Assistant required as soon as possible, capable, for Family Store business, with Photographic (age 25-35). Also Unqualified man. Durbins, Chemists, 12 The Broadway, Wimbledon, S.W.19.

**QUALIFIED** Assistant required for high-class Dispensing business; capable and reliable Dispenser; permanency; please state age, height and salary required, and enclose photo. W. G. Bircombe, 123 Rowlands Road, Worthing.

**QUALIFIED** Assistant required immediately; permanency; for district 10 miles from Birmingham; prospect of Management to suitable applicant. Write, stating age, wages required, references and full particulars. 181/13, Office of this Paper.

**QUALIFIED** Assistant required, June 6; state experience, height, and age, also salary required, references, and photo if possible. Leonard Stearn, 268 Mill Road, Cambridge.

**QUALIFIED** Assistant required; permanent berth. Please give full particulars, Harrison's, Chemists, Thorne, near Doncaster.



**QUALIFIED** Assistant wanted for new shop opening shortly in Plaistow; must have good Counter manner and be willing to work (age 25-30). State wage required. Apply by letter to J. Sugg, 169 Ashburton Avenue, Ilford, Essex.

**QUALIFIED** Chemist required, West Country Pharmacy; high-class experience necessary; capable Counterman, Window-dresser and Dispenser, and thoroughly conversant all branches of Pharmacy; undeniable references (age about 30); salary offered £4 10s. to £5, according to experience. Full details, together with photograph (returnable), 180/34, Office of this Paper.

**QUALIFIED** Dispenser for Central London Pharmacy; progressive for suitable applicant. Apply "J.", 326/863, Office of this Paper.

**QUALIFIED** Lady Assistant required for Dispensing and Counter in working-class district. Apply, stating full particulars, or, if preferred, by interview, to Arnett & Co. (Chem.), Ltd., 307 Heathway, Dagenham, Essex.

**QUALIFIED** Man wanted for good-class business; must have had Homœopathic experience in the making of Tablets, Tinctures, etc.; very easy hours. Full particulars to Radford, 69 Temple Row, Birmingham 2.

**QUALIFIED** Manager required for shop in S.E. London; middle-class Dispensing business; splendid opportunity for the right man. Give full particulars of age, experience and salary required, 181/28, Office of this Paper.

**QUALIFIED** Manager required; must be experienced Dispenser and capable of managing busy shop, large staff; S.W. London district; state wages and references; no country applications. Write 172/11, Office of this Paper.

**QUALIFIED** Manager, single preferred, for permanency; no Sunday duty. Full particulars of experience and situations held, also salary required; letters only. Shackletons, Cash Chemists, Ltd., 502 Great West Road, Lampton, Hounslow, Middlesex.

**QUALIFIED** Young Lady or Gentleman required; one recently Qualified would suit; permanency if desired. Apply, with photograph and salary required, Murrys, 14 Electric Parade, Clacton-on-Sea.

**SEASON** Assistant, male, single, required, July, August, September, for high-class business; hours 8.30 to 7.30, less meals; please give full particulars, experience, copy references, age, height, salary required and enclose photograph (returnable). C. Bayley, 25 Connaught Avenue, Frinton-on-Sea.

**TIMOTHY WHITES & TAYLORS** require Unqualified Assistants for relief and seasonal duty on South Coast; opportunity for gaining varied experience. Apply, giving full particulars, to Retail Staff Manager, 70 Vauxhall Bridge Road, London, S.W.1.

**UNQUALIFIED** Assistants for Holiday Relief, June to September, Central London. Apply "A.", 326/864, Office of this Paper.

**UNQUALIFIED** Assistant required at once for one month; Dispensing and Counter experience; good references Lewis Wing, Ltd., Regent Street, Weston-super-Mare.

**UNQUALIFIED** Assistant required for Dispensing in high-class Manchester suburban Pharmacy; must be quick, accurate Dispenser, used to good-class private and N.H.I. State age, height, experience and wage required, etc. (photo if possible), 179/17, Office of this Paper.

**UNQUALIFIED** Assistant required for South of England Pharmacy; good Window-dresser; accurate Dispenser; salary £3 per week. Write 326/859, Office of this Paper.

**UNQUALIFIED** Assistant required, July 25 to September 17 inclusive; must be quick and accurate Dispenser; no Sunday duty; salary £3 per week. References, age, etc., to E. S. Slack, M.P.S., 9 Queen Street, Ramsgate.

**UNQUALIFIED** Assistant (S.E. London); must be reliable Dispenser; modern Window-dresser, and have good Counter technique; salary commencing £2 15s. State age, experience, and send references and photo, 179/5, Office of this Paper.

**UNQUALIFIED** Assistant, with experience of good-class Dispensing and Photographic business. Apply, stating usual particulars and salary required, to above address. 181/24, Office of this Paper.

**UNQUALIFIED** Junior Assistant wanted; male preferred; good Dispenser; active, reliable. Apply by letter, Melville, 185 Hammersmith, W.6.

**UNQUALIFIED** ladies and gentlemen for the Season, also Apothecaries Hall Dispenser; Counter, Photo, Sales, Toilets experience, and good references essential; lodgings reasonable; full particulars and salary required in first letter, please. Hudsons, Chemists, Skegness.

**WANTED.**—A Qualified Assistant for Pharmacy, N.H.I., Window-dressing and Photographic. Apply personally if possible, or write Rees, 49 High Street, Billericay, Essex.

**WANTED** for Drug Department, capable, Unqualified male Assistant (not under 21 years); quick and accurate Dispenser, Window-dresser and Salesman; permanency to right man. Apply, stating age, wage, experience, enclosing two references, Co-operative Society, Ltd., Hebden Bridge, first post May 23, 1938.

**WANTED**, Qualified Assistant (male or female), with good-class Dispensing experience. Give address of apprenticeship and of present employer; do not send testimonials or copies of same. R. Hardwick, 51 Poole Hill, Bournemouth.

**WANTED.**—Qualified Manager with a knowledge of Optics; J.C.Q.O. preferred. Usual particulars to E. R. Cherrett, Ltd., 18 Church Street, Monkwearmouth, Sunderland, Durham.

**YOUNG** Unqualified lady Assistant required for good-class Family business; hours 8.45 to 7 p.m., Saturdays 8. Please apply D. Edwards, 16 High Street, Roehampton, S.W.15.

#### WHOLESALE

### EXPERIENCED CHEMIST

with flair for Hair Colouring science and practical knowledge of toiletry. Applicants should be between 35 and 45 years old and furnish full particulars of qualifications, past experience and salary required in own handwriting to: **THE COUNTY PERFUMERY COMPANY, North Circular Road, N.W.10.**

**A** REPUTABLE old-established London house requires at once a young Pharmacist (age about 25 years); prospects to right man. Write, stating age, experience and salary required, to 180/22, Office of this Paper.

**A** WELL-EDUCATED Representative required for Medical Trade Propaganda; must be of good address, Qualified and possessing a knowledge of Ethical Pharmaceutical business; previous experience not essential. Please give full personal details and account of career to 326/855, Office of this Paper.

**A** WELL-KNOWN Firm marketing nationally-advertised Toilet Products, require experienced Representative with car, having established connexion in the Midlands area with Chemists, Ladies' Hairdressers and Stores; salary, expenses and commission basis. Write, stating age, past experience, and salary expected, to Box 579, Samson Clark's, 61 Mortimer Street, W.1.

**A** DVERTISER manufacturing Sherry Egg Tonic, etc., requires Travellers to introduce to Licensed Chemists; commission only. 181/12, Office of this Paper.

**E** XPERIENCED Representative required to sell nationally-advertised Shampoo for South Coast and South-West London districts; representative must reside on territory. 326/852, Office of this Paper.

**L** ADY Laboratory Assistant required (Hall qualification), for London Manufacturers of Perfumery. Write, stating experience, and salary required, 326/851, Office of this Paper.

**M** EDICAL PROPAGANDA.—A well-known organisation marketing Biological and Pharmaceutical products require the services of two well educated Representatives for Medical Propaganda for London and Midlands. Applicants should state, age, qualifications, experience and salary required, 326/854, Office of this Paper.



**MEDICAL REPRESENTATIVES.**—Two good Men prepared to travel throughout British Isles required by London House; a knowledge of Therapeutics essential. Write, giving fullest details of past and present experience, age and salary expected, to Box M.R. 9960, c/o Dawson's, 129 Cannon Street, E.C.4.

**QUALIFIED Chemist** wanted for June 11-June 25 inclusive for West End house. State salary. required to 179/2, Office of this Paper.

**REPRESENTATIVE** required for Glasgow district by Distributors of high-grade Medical Specialities, Electric and Hand Inhalers; must be experienced in calling on Medical Profession and Chemists; salary and commission basis and expenses. Reply, giving full particulars, age and if car owner, 326/860, Office of this Paper.

**REPRESENTATIVE** wanted, with connexion amongst Chemists in West End London and districts beyond to carry Continental Pharmaceuticals. Write, in confidence, giving age, previous experience of such lines and remuneration required, 180/47, Office of this Paper.

**TRAVELLER** required; work large range Sundries in Essex, Suffolk and Norfolk; must have connexion with Chemists and Hairdressers and possess car. Apply, 179/1, Office of this Paper.

**WANTED** immediately, Tablet Maker with knowledge of Coating preferred; progressive salary to suitable man. 326/853, Office of this Paper.

**WILLIAM RANSOM & SON, LTD.**, Manufacturing Chemists, Hitchin, require Young Qualified Assistant in Warehouse Department. Good prospects for intelligent hard worker.

**WORKS** Manager Assistant (age about 30) wanted by Manufacturers in London, N.W. Apply, with full details as to experience, remuneration expected, etc., to 326/858, Office of this Paper.

### COLONIAL, INDIAN AND FOREIGN

**BRITISH COLONY.**—Qualified Chemist required as Assistant Manager for a Pharmacy in Nigeria; preference given to one with Optical qualification (age about 25, unmarried); commencing salary £380 per annum, progressive to £630 per annum, with pension, free quarters, and four months' leave on full pay; first-class passages outward and homeward, sailing date June 15 or 29, or if disengaged could sail June 1. Write, giving full particulars and send recent photographs, to 326/862, Office of this Paper.

**INDIA.**—Messrs. Bathgate & Co., Wholesale and Retail Chemists, Calcutta, require a Qualified Assistant with experience since qualifying (age not over 25); single; 4 years' agreement; passage paid out and home; salary, which starts from date of sailing, first year Rupees 400 monthly (about £30), second year Rupees 425 (about £31 17s. 6d.), third year Rupees 450 (about £33 15s.), fourth year Rupees 475 (about £35 12s. 6d.). Write, giving particulars, to Box ZZ.543, c/o Deacon's, 5 St. Mary Axe, E.C.3.

**QUALIFIED Chemist and Druggist** required for Kenya Colony; capable of taking charge of Wholesale and Retail establishment; four years' agreement; passage paid; progressive salary commencing £50 monthly; abstainer preferred. Send details record, when disengaged, whether married or single, to Johnson & Clapham (Export), Ltd., 54 St. Mary Axe, E.C.3.

### NAMES AND ADDRESSES

When sending advertisements for any of the columns of this Supplement, advertisers—as a guarantee of good faith and not necessarily for publication—should always give their names and addresses. It sometimes occurs that this rule is not adhered to and delay and disappointment ensue. Strict attention to this detail will be appreciated.

### ALL MANAGERS AND ASSISTANTS SHOULD JOIN AT ONCE

#### The National Assoc. of Chemists' Assistants

INCORPORATED IN THE CHEMICAL WORKERS' UNION

**BENEFITS:** Trade Protection, Legal Aid, Unemployment Benefit, Free Use of Employment Bureau

WRITE FOR PARTICULARS: Arthur J. Gillian, Gen. Sec.,  
149 Newington Causeway, London, S.E.1

### SITUATIONS WANTED

#### RETAIL (HOME)

2s. for 18 words or less; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

**A** CAPABLE, reliable man desires post as Manager; good all-round experience with excellent references; state salary. 180/46, Office of this Paper.

**A** S Locum (ex-owner) (52), has vacant dates June, July; London experience; London only. M.P.S., 45 Broadwater Avenue, Letchworth.

**A** SSISTANT (28), Unqualified; all-round experience (West End); accurate Dispenser; Window-dressing; London. "C.," 44 Turneville Road, W.14.

**B** IRMINGHAM District, North Wales, Peterborough area or London; Locum work taken; well recommended; now booking dates. E. Hanley, 180 Lozells Road, Handsworth, Birmingham.

**B** OOK-KEEPER, two evenings weekly and alternate Saturdays; 25 years' trade experience. Apply, 180/52, Office of this Paper.

**C** APABLE Unqualified Lady Assistant (22); excellent Retail and Dispensing experience; seeks Locum; free May 21. "Advertiser," 23 Oxberry Avenue, S.W.6. Putney 2364.

**E** XPERIENCED and Qualified Dispenser desires post with Doctor; Locum or Permanent. Apply Miss K. Hamill, 43 Hebdon Road, Upper Tooting.

**L** ADY Dispenser (Hall), Secretary, desires post with Doctor; experienced; good testimonials; Eastern district preferred. 169/1, Office of this Paper.

**L** OCUM.—Well-experienced London Manager is now open for engagements; highly recommended. 181/30, Office of this Paper.

**M** ANAGER, Qualified (25), desires post; smart appearance, expert Salesman, quick Dispenser, good Window-dresser; irreprouchable references; 9 years' experience in London; free when required. 181/31, Office of this Paper.

**P** ART-TIME Dispensing Book-keeping, or position of trust; excellent Wholesale and Retail experience. "A," 8 Warrington Road, Croydon.

**P** HARMACIST Locum; open dates May 22-June 10; June 27-July 3; July 18-August 20; September 3 onwards. Phone Hounslow 1948. Pharmacist, 95 Ellerdine Road, Hounslow.

**Q** UALIFIED M.P.S. (39), married, desires permanency; references; available immediately. 180/39, Office of this Paper.

**Q** UALIFIED (35), married, desires permanency as Manager or Locum engagement; in Brighton district. "Raddats," 9 Clifton Place, Brighton.

**Q** UALIFIED (33), married, seeks permanent and progressive post as Manager; London, seaside and country experience; highest references; South Coast preferred; free one month. 180/49, Office of this Paper.

**Q** UALIFIED (34), single, desires change; 8 years managing; all-round experience; excellent references; permanency; London area. 180/3, Office of this Paper.



**SOUTHERN COUNTIES.**—Experienced reliable Manager, open to immediate engagement; permanency or Locum; succession entertained. M.P.S., 4 Exton Road, Boscombe, E.

**UNQUALIFIED** Lady requires post, Locum or permanency; good references; some experience. Apply, Maxwell, 4 King Street, Montrose, Scotland.

### WHOLESALE

**A.**—SIDE-LINE wanted for Midland Stores, Chemists, Hairdressers, on part expenses basis; first-class connexion and experience. 173/33, Office of this Paper.

**ADVERTISER**, first-class connexion among London Chemists and Hairdressers' Sundriesmen, also Shipping, desires representation of a first-class firm. P.C.B. 283/9, Office of this Paper.

**BEAUTY PREPARATIONS.**—Expert Compounder seeks post; good West End experience in all branches of the business; own formulae. 180/26, Office of this Paper.

**BIRMINGHAM** and 30 miles round; young experienced Salesman desires change; fully conversant with the Chemists' trade; moderate salary. 180/6, Office of this Paper.

**ESTABLISHED** Representative, sound connexion Chemists only; Home Counties; excellent references; requires additional representation on commission basis; minimum possibilities £3 per week only considered. C. W. Bonny, 5 Rosemount, Wallington, Surrey.

**GENTLEMAN** (40), many years own manufacturing business, requires situation in any capacity where experience and initiative may be of account. Advertiser has travelled extensively, has good knowledge Continental drug markets, synthetic perfumers, essential oils, lubricants, as well as having had own tablet plant; salary is of secondary importance. 167/28, Office of this Paper.

**MALE** Clerk (18 years) seeks position with Wholesale and Manufacturing Chemists; 2 years' experience with trade; now disengaged; excellent references. Apply B. Gibson, 83 Water Lane, London, S.W.2.

**MEDICAL REPRESENTATIVE** (ten years Sumner & Co., Liverpool) wishes to undertake similar representation; direct selling or propaganda. 11 Queensway, Chester.

**NORTHERN IRELAND.**—Manufacturers' Agent, office Belfast, requires additional Agencies; good connexion Chemists; own car; excellent references. 175/6, Office of this Paper.

**REPRESENTATIVE**, M.P.S., 35 years' territory, London and Eastern Counties, desires one or two additional agencies, Sundries, Toilets or Drugs; commission and car expenses. 6 Trevelyan Gardens, Kensal Rise.

**THIRTY** Years' experience, Representative, Propagandist; car; excellent record, health, address; salary and expenses. "Hippocrates," c/o Jackson, Rowan Avenue, Boothville, Northampton.

**YOUNG** Man requires situation as Assistant with Wholesale or Distributing Chemist; good knowledge of Chemistry; Colonial experience; sound commercial training; trial appreciated. P. Gadd, 30 Aberdeen Road, Dollis Hill, London, N.W.10.

### PRICE LISTS, TRADE CIRCULARS, SAMPLES, AND PRINTED MATTER

can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

**CLEAR OUT**—your Old or Damaged Stock of Photo Goods. Why keep them any longer? Turn them into CASH. I GIVE BEST PRICES for Old Films (damaged, fogged or expired dates); Packet Papers. Cards (any sizes). Old Photo Goods or Cameras. Bromide Papers. Plates (all sizes, all makes). Send any goods in the photo line. I buy all, good or bad. Cash per return. A good price for all Cameras. Send them along. **S. E. HACKETT, 23 July Road, Liverpool**

### COLONIAL, INDIAN AND FOREIGN

**QUALIFIED** Member of the Pharmaceutical Society of Malta seeks situation at salary not less than £400 yearly, anywhere in British Empire where Maltese Ph.C. Diploma is recognised, or would accept temporary position yielding means to qualify in England; reason, deplorable working conditions of the profession in Malta. Write, Box R67CD, Malta Trade Journals' Service Agency, Sliema, Malta.

### FOR SALE

(Articles to the value of £5-£50.)

**CASH** Register, "National" type; prints all details and shows total inside; bargain. Write, W. Cross, 18 Braydon Road, N.16.

**NATIONAL CASH REGISTER**, Electric model, in perfect condition; still under guarantee and free maintenance; present market value £83; will sacrifice at £60 or nearest offer; can be seen by appointment only. Phone: Speedwell 9213.

### MISCELLANEOUS

10s. for 60 words or less; 1s. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

**IDEAL CHEMIST SHOP FIXTURES** and Fittings, New, Second-hand and Shop-soiled, to be selected from our varied stock, at advantageous prices. Carboys, Shop Rounds, Cash Registers, Tills, Safes, Dispensing and Personal Weighing Machines. Courteous attention will be afforded any enquiry, large or small. Your inspection is cordially invited. Send your requirements to RUDDUCK & Co., 219 Old Street, London, E.C.1.

**SECONDHAND FITTINGS.**—Complete set of mahogany fittings including Shop Rounds, Mortars and Carboys. All at one quarter to-day's price. Can be seen at, or full particulars from, PHILIP JOSEPH & SONS, LTD., 90/92 St. John Street, Clerkenwell, E.C.1. Phone, Clerkenwell 4111/2. "Pharmacy Fitters for over a Century."

**£2—COMPLETE CHEMIST FITTINGS** at any price you wish to pay. We have erected in our showrooms a Complete Chemist's Shop with Metal Shop Front, Window Backs, Correct Window Lighting, Signs and Modern Interior Fittings. Apply for Lists, D. MATTHEWS & SON, LTD., "The Liverpool Shop Fitters," 14 and 16 Manchester Street, Liverpool. Est. 1848.

### EXCHANGE COLUMN

2d. per word, minimum 2s. (Box No., 1s. extra.)

### FOR DISPOSAL

**COMPLETE** contents of Pharmacy; very fine Mahogany Fittings, Recessed Shop Rounds, Showcases, Scales, etc.; London. 180/7, Office of this Paper.

**FOR SALE.**—Complete equipment of a Pharmacy; deferred terms might be arranged. Letters to Chemist, 167 Chevening Road, N.W.6.

**OPTICAL** Trial Case, sixty pairs Lenses, unmounted, Trial Frame, Lens Measure, Sundries, perfect condition, £3 3s. 38 Dalmally Road, Addiscombe, Croydon.



# **Whiffen's**

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★ **ALMOND OIL**

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East Indian & Australian

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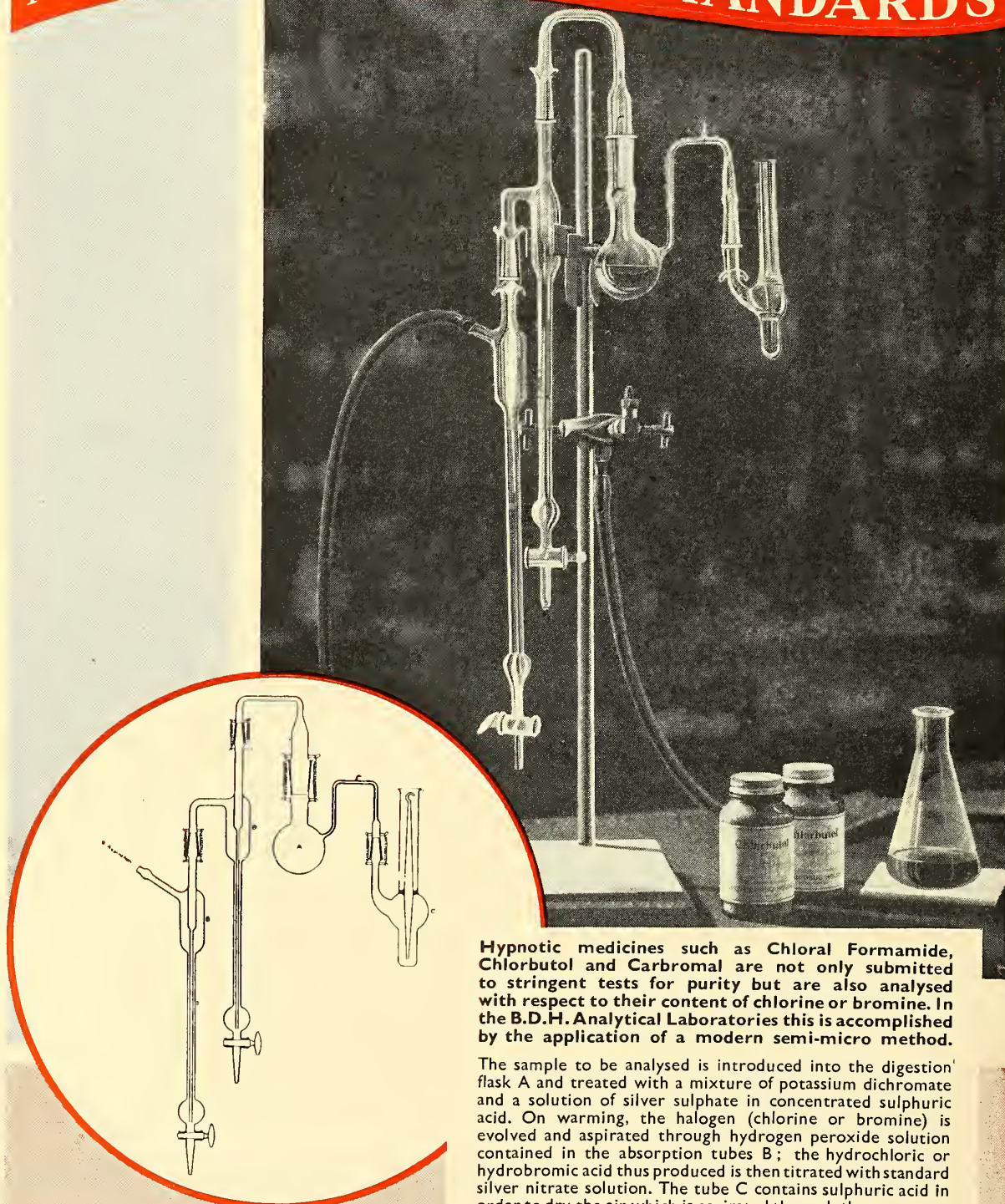
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The sample to be analysed is introduced into the digestion flask A and treated with a mixture of potassium dichromate and a solution of silver sulphate in concentrated sulphuric acid. On warming, the halogen (chlorine or bromine) is evolved and aspirated through hydrogen peroxide solution contained in the absorption tubes B; the hydrochloric or hydrobromic acid thus produced is then titrated with standard silver nitrate solution. The tube C contains sulphuric acid in order to dry the air which is aspirated through the apparatus.

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